# Oregon Workers' Compensation Premium Rate Ranking Calendar Year 2000



Research & Analysis Section Oregon Department of Consumer & Business Services



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# Oregon Workers' Compensation Premium Rate Ranking Calendar Year 2000

**Department of Consumer & Business Services** 

Director, Mary Neidig

#### **Information Management Division**

Administrator, Dan Adelman

#### Research & Analysis Section

Manager, Ed Bissell Financial Economist and Actuary, Rick Elliott Research Analyst, Adam Drost

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Research & Analysis Section 350 Winter St. NE, Room 300 Salem, OR 97301-3880 (503) 378-8254

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#### **Highlights**

- Oregon employers pay, on average, the 34th highest workers' compensation premium rates in the nation; this represents a slight increase from 38th highest in 1998.
- Premium rate indices range from a low of \$1.27 per \$100 of payroll in Virginia to \$4.08 in Florida. The premium rate index in Oregon is \$1.93.
- Oregon's premium rate ranking in the 50 occupational classes used in this study ranged from third highest for "Farm: Cattle or Livestock Raising" to 49th for "Farm: Nursery."
- The loss cost multiplier for Oregon is 16.2 percent. This is an average, based on the loss cost multipliers in effect in 1999 for SAIF and the top 30 private insurers, weighted by 1999 earned premium.
- Effective January 1, 2000 Oregon experienced an overall workers' compensation rate decrease of 2.2 percent. Changes for all states during the first three quarters of 2000 resulted in an average premium level increase of 3.6 percent. Oregon's 2000 rate decrease followed a 4.8 percent decline effective January 1, 1999.

#### Oregon Workers' Compensation Premium Rate Ranking

# Comparison by state January 1, 2000

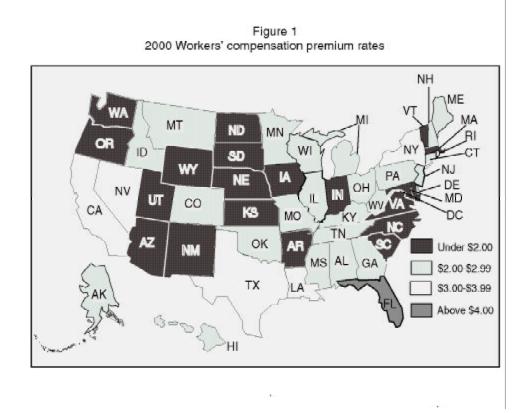
#### Introduction

The comparison of workers' compensation costs by state has many uses: as a factor in plant relocation; as an indicator of possible differences in benefit levels; and to examine the changes through time in workers' compensation premium rates among states. This study updates the one done in 1998 by the Research & Analysis Section of the Oregon Department of Consumer & Business Services and uses essentially the same methodology employed in that study.

#### **Findings**

Oregon employers in the voluntary market pay, on average, the 34th highest workers' compensation premium rates in the nation. In this analysis, premium rates include assessments to cover workers'

compensation regulatory costs. Due primarily to workers' compensation reforms enacted in 1987 and 1990 and to workplace safety initiatives, Oregon has experienced dramatic premium rate decreases over the past several years. Following double digit rate cuts in the early 1990's, Oregon's rates dropped 3.2 percent in 1995 and 1.8 percent in 1996. Oregon's rates decreased by double digits again in 1997 and 1998, with rate reductions of 10.5 percent and 15.6 percent respectively. In 1999, rates decreased by 4.8 percent, which was followed by a 2.2 percent reduction in 2000. These rate cuts have contributed to Oregon reducing its premium rate ranking from eighth to 34th highest in the nation between 1990 and 2000.



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For the first time in the study's history, Oregon moved up in the ranking, climbing from 38th in 1998 to 34th in 2000. (See Table 1.) This was due to the fact that some states experienced large cuts in their pure premi-

ums during the interceding two years. Cuts in manual rates appear to be a national trend since every state, except one, had decreases in their 2000 index rate from their 1998 index rate.

Table 1
Workers' compensation premium rate ranking

| 2000<br>ranking | 1998<br>ranking | State                | Index rate | Effective date                     |
|-----------------|-----------------|----------------------|------------|------------------------------------|
| 1               | 2               | Florida              | 4.08       | January 1, 2000                    |
| 2               | 5               | Louisiana            | 3.36       | May 1, 1999                        |
| 3               | 1               | California           | 3.34       | January 1, 2000                    |
| 4               | 7               | Rhode Island         | 3.18       | November 1, 1998                   |
| 5               | 6               | Nevada               | 3.10       | January 1, 2000                    |
| 6               | 10              | New York             | 3.05       | October 1, 1999                    |
| 7               | 3               | Texas                | 3.05       | January 1, 2000                    |
| 8               | 14              | Hawaii               | 2.99       | November 1, 1997                   |
| 9               | 16              | Ohio                 | 2.89       | July 1, 1999                       |
| 10              | 4               | District of Columbia | 2.89       | April 17, 1999                     |
| 11              | 11              | Oklahoma             | 2.85       | 8/1/99 State Fund, 12/1/99 private |
| 12              | 12              | Montana              | 2.75       | July 1, 1999                       |
| 13              | 39              | West Virginia        | 2.72       | July 1, 1999                       |
| 14              | 21              | Colorado             | 2.64       | December 1, 1999                   |
| 15              | 18              | Illinois             | 2.62       | January 1, 2000                    |
| 16              | 15              | Delaware             | 2.58       | December 1, 1999                   |
| 17              | 9               | Connecticut          | 2.58       | January 1, 2000                    |
| 18              | 8               | Alabama              | 2.56       | March 1, 1999                      |
| 19              | 25              | Maine                | 2.52       | January 1, 1999                    |
| 20              | 13              | New Hampshire        | 2.47       | January 1, 1999                    |
| 21              | 19              | Georgia              | 2.42       | May 1, 1998                        |
| 22              | 20              | Minnesota            | 2.40       | January 1, 2000                    |
| 23              | 22              | Michigan             | 2.40       | January 1, 2000                    |
| 24              | 30              | Kentucky             | 2.32       | September 1, 1999                  |
| 25              | 26              | Pennsylvania         | 2.31       | October 1, 1999                    |
| 26              | 27              | Missouri             | 2.26       | January 1, 2000                    |
| 27              | 31              | New Jersey           | 2.19       | January 1, 2000                    |
| 28              | 24              | Alaska               | 2.18       | January 1, 2000                    |
| 29              | 32              | Idaho                | 2.11       | January 1, 2000                    |
| 30              | 28              | Mississippi          | 2.10       | March 1, 1999                      |
| 31              | 23              | Tennessee            | 2.10       | March 1, 1999                      |
| 32              | 35              | Wisconsin            | 2.01       | July 1, 1999                       |
| 33              | 34              | Vermont              | 1.98       | July 1, 1998                       |
| 34              | 38              | OREGON               | 1.93       | January 1, 2000                    |
| 35              | 41              | North Dakota         | 1.79       | July 1, 1999                       |
| 36              | 17              | Massachusetts        | 1.77       | September 1, 1999                  |
| 37              | 29              | Arizona              | 1.77       | October 1, 1999                    |
| 38              | 40              | Washington           | 1.77       | January 1, 2000                    |
| 39              | 42              | Wyoming              | 1.75       | January 1, 2000                    |
| 40              | 37              | Arkansas             | 1.68       | July 1, 1999                       |
| 41              | 46              | Iowa                 | 1.66       | January 1, 1999                    |
| 42              | 33              | New Mexico           | 1.66       | January 1, 2000                    |
| 43              | 44              | North Carolina       | 1.64       | April 1, 1998                      |
| 44              | 36              | South Dakota         | 1.63       | July 1, 1999                       |
| 45              | 49              | Nebraska             | 1.62       | January 1, 2000                    |
| 46              | 43              | Maryland             | 1.58       | January 1, 2000                    |
| 47              | 45              | Utah                 | 1.58       | December 1, 1998                   |
| 48              | 47              | Kansas               | 1.56       | January 1, 2000                    |
| 49              | 51              | South Carolina       | 1.51       | May 1, 1999                        |
| 50              | 50              | Indiana              | 1.32       | January 1, 2000                    |
| 51              | 48              | Virginia             | 1.27       | April 1, 1999                      |

Source: Research & Analysis Section, Oregon Department of Consumer & Business Services (12/2000) Note: Although some states may appear to have the same index rate, the ranking is based on calculations prior to rounding to two decimal places. Premium rate indices (per \$100 of payroll) range from \$1.27 in Virginia to \$4.08 in Florida. Oregon's index is \$1.93. One jurisdiction has an index rate above \$4.00; six are in the \$3.00-\$3.99 range; 25 have index rates between \$2.00 and \$2.99; and 19 have rates under \$2.00 (see Figure 1 and Table 1). The premium rate indices are based on data from 51 jurisdictions for rates in effect as of January 1, 2000.

Oregon's premium rate ranking by occupational class ranges from third highest for class 0083, "Farm: Cattle or Livestock Raising" to 49th for class 5, "Farm: Nursery." Table 2 illustrates Oregon's ranking in the 10 largest (by payroll) of the 50 classes used in this study.

Table 2
Oregon's ranking in the top 10 of 50 occupational classes

| Occupation  | Oregon payroll<br>(policy years<br>1994-1996) | Oregon<br>ranking |
|---|---|-------------------|
| Clerical office employees NOC                       | \$16,251,537,767                              | 33                |
| College: Professional employees & clerical          | \$5,609,102,802                               | 35                |
| Salespersons - outside                              | \$5,213,239,906                               | 42                |
| Physician and clerical                              | \$2,470,619,308                               | 27                |
| Restaurant NOC                                      | \$2,245,243,198                               | 27                |
| Store: Retail, NOC                                  | \$1,293,482,022                               | 37                |
| Hospital: Professional employees                    | \$1,211,300,040                               | 40                |
| Trucking: NOC - All employees & drivers             | \$926,884,397                                 | 24                |
| Television/radio/telephone/telecomm. device mfg NOC | \$629,913,133                                 | 43                |
| Chauffeurs NOC                                      | \$614,503,587                                 | 34                |

Source: Research & Analysis Section, Oregon Department of Consumer & Business Services (12/2000)

#### Methodology

The National Council on Compensation Insurance (NCCI) classification codes were used in this study. (Codes of those states that do not use the NCCI classification system were converted by having the state select analogous classes.) Of the approximately 452 active classes in Oregon, 50 were selected based on relative importance as measured by share of losses in Oregon. These 50 represent 67.8 percent of 1994-1996 Oregon payroll, and 62.3 percent of 1994-1996 Oregon losses, as reported by NCCI on a policy year basis. Appendix 1 lists occupational classes, payroll, and loss information used in this study.

For comparison of average manual rates among states, it was necessary to derive manual rates for those states that only had pure premium, or advisory loss cost rates available. Pure premium is the amount of premium necessary to pay for workers' compensation claims, excluding all loss adjustment or claim management expenses, other operating expenses, assessments, taxes, and profit allowance. The ratemaking organization for

each state develops pure premium rates for each occupational class on the basis of aggregate loss information submitted by workers' compensation carriers. NCCI is the ratemaking organization for 33 states and the District of Columbia and provides advisory ratemaking services to the local rating organization in several other states (see Table 3).

Expense loading factors, or loss cost multipliers, are the factors by which pure premium rates are multiplied to account for the insurer's expenses, taxes, and profit. A loss cost multiplier or expense load factor was used to modify each competitive state's rates unless they provided manual rates. In states with competitive rating laws, each carrier determines its own loading factor. Pure premium increased by the expense loading factor represents an equivalent manual rate per \$100 of earnings for each employee. However, the insurance premium paid by an employer is not just a direct product of manual rate times payroll. Other factors, such as premium discounts for quantity purchases; experience

Table 3
States by workers' compensation rating organization

| NCCI rating/advisory o  | rganization  | Independent<br>rating bureau  | Monopolistic state funds                                       |
|---|--|---|--|
| Alabama <sup>1</sup> Alaska <sup>1</sup> Arizona Arkansas <sup>1</sup> Colorado <sup>1</sup> Connecticut <sup>1</sup>   | Maryland <sup>1</sup> Mississippi <sup>1</sup> Missouri <sup>1</sup> Montana <sup>1</sup> Nebraska <sup>1</sup> Nevada   | California <sup>1</sup> Delaware <sup>1</sup> Indiana <sup>1</sup> Massachusetts Michigan <sup>1</sup> Minnesota <sup>1</sup> | North Dakota<br>Ohio<br>Washington<br>West Virginia<br>Wyoming |
| District of Columbia <sup>1</sup> Florida Georgia <sup>1</sup> Hawaii <sup>1</sup> Idaho Illinois <sup>1</sup> Iowa Kansas <sup>1</sup> Kentucky <sup>1</sup> Louisiana <sup>1</sup> Maine <sup>1</sup> | New Hampshire <sup>1</sup> New Mexico <sup>1</sup> Oklahoma <sup>1</sup> OREGON <sup>1</sup> Rhode Island <sup>1</sup> South Carolina <sup>1</sup> South Dakota <sup>1</sup> Tennessee <sup>1</sup> Utah <sup>1</sup> Vermont <sup>1</sup> Virginia <sup>1</sup> | New Jersey New York North Carolina¹ Pennsylvania¹ Texas¹ Wisconsin  |  |

Source: NCCI Annual Statistical Bulletin, 2000 Edition

modification factors; premium reductions on policies carrying deductible features; retrospective rating plans; and dividends affect the rate an employer pays. For Oregon, the average expense loading factor of 16.2 percent was computed based on the loading factors in effect during 1999, for each of the top 30 private insurers and the State Accident Insurance Fund, weighted by 1999 direct earned premiums. See Table 4 next page for load factors by state.

States differ substantially in the way in which they set and apply their manual rates. **Monopolistic states** have a state-operated workers' compensation system and manual rates are state-set. States with an **Independent Rating Bureau** fall into two categories: those that use the NCCI to prepare their manual rates, and those that use their own rating bureau independent of NCCI.

Competitive states are those which allow insurers to compete for business by setting their own expense loading factors, which are applied to pure premium rates to produce manual rates. (See Table 3 above for states by workers' compensation rating organization.)

Premium rates for the 50 selected classes were obtained directly from the states via letter, fax, or telephone call, or from the NCCI All States Basic Manual for Workers' Compensation and Employers' Liability Insurance. Rates for each state were weighted by 1994-1996 Oregon payroll to obtain an average manual rate for that state. If a state did not have rates for all 50 classes, its average rate was adjusted by the ratio of Oregon's average rate for the 50 classes to Oregon's average rate for the limited classification set.

<sup>&</sup>lt;sup>1</sup> States with Competitive Rating Laws and effective dates: Arkansas (6/17/81), Oregon (7/1/82), Kentucky (7/15/82), Illinois (8/18/82), Rhode Island (9/1/82), Michigan (1/1/83), Georgia (1/1/84), Minnesota (1/1/84), Vermont (7/1/84), New Mexico (10/1/87), Maryland(1/1/88), Louisiana (9/1/88), Indiana (9/1/89), Connecticut (10/1/89), Hawaii (6/25/90), South Carolina (7/1/90), District of Columbia (1/1/91), Colorado (3/1/91), Alabama (11/1/91), Texas (3/1/92), Utah (5/20/92), Maine (1/1/93), South Dakota (7/1/93), Nebraska (9/1/93), Pennsylvania (12/1/93), Kansas (1/1/94), Missouri (1/1/94), New Hampshire (1/1/94), Oklahoma (1/1/94), Virginia (1/1/94), Delaware (8/1/94), California (1/1/95), North Carolina (7/28/95), Montana (10/1/95), Mississippi (1/1/96), Tennessee (1/1/97), Alaska (1/1/98).

Table 4
Load factors used for competitive states

| State                     | 1998 load factor                     | 2000 load factor                     |
|---------------------------|--------------------------------------|--------------------------------------|
| Alabama <sup>1</sup>      | 24.6%                                | 10.7%                                |
| Alaska                    | NCCI advisory rates used             | 30.9%                                |
| Arkansas                  | 24.0%                                | 17.3%                                |
| California                | 42.4%                                | Average manual rates used            |
| Colorado                  | 15.0%                                | 15.1%                                |
| Connecticut               | 23.0%                                | 15.0%                                |
| Delaware                  | 20.2%                                | 19.2%                                |
| District of Columbia      | 61.5%                                | 45.0%                                |
| Georgia                   | 45.0%                                | 28.9%                                |
| Hawaii                    | 30.0%                                | 30.0%                                |
| Illinois                  | NCCI advisory rates used             | NCCI advisory rates used             |
| Indiana                   | Fully developed rates used           | Fully developed rates used           |
| Kansas                    | 23.7%                                | 23.4%                                |
| Kentucky                  | 30.6%                                | 32.5%                                |
| Louisiana                 | 36.4%                                | 25.1%                                |
| Maine                     | 10.0%                                | 14.5%                                |
| Maryland                  | 42.0%                                | 25.0%                                |
| Michigan                  | Average manual rates used            | Average manual rates used            |
| Minnesota                 | 67.6%                                | 58.5%                                |
| Mississippi <sup>2</sup>  | 22.5%                                | 11.8%                                |
| Missouri                  | Avg. manual rate for top 30 insurers | Avg. manual rate for top 30 insurers |
| Montana                   | Average manual rates used            | Average manual rates used            |
| Nebraska                  | 11.0%                                | 12.0%                                |
| New Hampshire             | 23.6%                                | 12.3%                                |
| New Mexico                | 28.0%                                | 47.5%                                |
| North Carolina            | 24.0%                                | 14.1%                                |
| Oklahoma                  | 22.0%                                | 18.3%                                |
| Oregon                    | 20.4%                                | 16.2%                                |
| Pennsylvania              | 10.4%                                | 15.4%                                |
| Rhode Island <sup>3</sup> | 57.7%                                | 60.5%                                |
| South Carolina⁴           | 28.0%                                | 28.0%                                |
| South Dakota              | 30.8%                                | 28.4%                                |
| Tennessee                 | 25.8%                                | 22.0%                                |
| Texas                     | Average manual rates used            | Average manual rates used            |
| Utah                      | 27.1%                                | 23.4%                                |
| Vermont                   | 20.0%                                | 20.0%                                |
| Virginia                  | 25.9%                                | 19.2%                                |

<sup>&</sup>lt;sup>1</sup> Alabama's load factor used in the 1998 study was incorrectly calculated at 43.3%. If the correct premium weighted average load factor of 24.6% had been used, Alabama's index would have been 3.22. This would have changed Alabama's ranking in the 1998 study from 8th to 14th.

Source: Research & Analysis Section, Information Management Division, Oregon Department of Consumer & Business Services (12/2000)

<sup>&</sup>lt;sup>2</sup> Mississippi insurers can choose to use pure premium rates from 9/1/92, or loss costs from 3/1/96, 3/1/97, 3/1/98, or 3/1/99 modified by a loss cost multiplier. The multiplier given here is the premium weighted average applied to the four sets of loss costs.

<sup>&</sup>lt;sup>3</sup> The 2000 load factor used for Rhode Island is from the state fund, which represents 57% of the market share.

<sup>&</sup>lt;sup>4</sup> South Carolina's load factor was excluded from the calculations for the 1998 study. In 1998, the load factor that should have been applied to South Carolina was 28.0%. This would have given South Carolina an index of 1.89 and a ranking of 45.

Connecticut, Florida, Hawaii, Illinois, Missouri, Montana, Nebraska, New Mexico, Oklahoma, Oregon, Virginia, and Wisconsin each have Contracting Classes Premium Adjustment Programs. To compensate for these programs, each of these state's contracting classes were divided by a state-specific average discount offset that was provided by NCCI. Alaska also has a Contracting Classes Premium Adjustment Program. However, this program is relatively new, and information from NCCI was unavailable to calculate an average discount offset. Because of this, no adjustment was made for Alaska's contracting classes.

To compensate for any impact the residual market may have on the voluntary market, a residual market adjustment was applied to all states. The residual market adjustment factor was multiplied by the state's index rate to calculate the final index rate. The adjustment factor for each state was calculated by subtracting the state's voluntary market expense load factor from the countrywide residual market load factor. If a state did not employ an expense load factor, the study's median expense load factor was used. This

number was then multiplied by the state's residual market share and subtracted from one to derive the residual market adjustment. If the state's residual market share was not available, NCCI provided a countrywide residual market share which was used.

#### **Historical comparisons**

As Appendix 2 illustrates, there have been many changes in workers' compensation premium rates among the various states throughout the past five years. Of the states that report premium level changes to the NCCI, only two had a net rate increase over the five year period from January 1, 1996 to December 31, 2000. Five states; Arizona, Hawaii, Minnesota, New Mexico, and Rhode Island had rate decreases of more than 40 percent in the same period. In the last two years, six jurisdictions: Arizona, Connecticut, District of Columbia, Massachusetts, New Mexico, and South Carolina, reported net rate decreases of over 10 percent.

Table 5 compares premium rate changes in Oregon with premium rate changes nationwide, excluding states with monopolistic state funds, for years 1994 through 2000.

Table 5
Effect of approved rate changes on premium level in Oregon and countrywide

|                 | 1994  | 1995  | 1996  | 1997   | 1998   | 1999  | 2000  |
|-----------------|-------|-------|-------|--------|--------|-------|-------|
| Oregon          | -4.3% | -3.2% | -1.8% | -10.5% | -15.6% | -4.8% | -2.2% |
| Avg countrywide | -1.9% | -3.5% | -4.9% | -7.4%  | -4.8%  | -1.7% | NA    |

Source: NCCI Annual Statistical Bulletin, 2000 Edition

#### Notes about using the rankings

Users of this premium rate ranking study should be aware of some of the problems in comparing premium rates among states. There are many factors which cannot be separately measured in each state, but which contribute to overall rate level and individual class rates. All of these factors vary from state to state, and the result is that it is very difficult to arrive at a common base from which proper comparisons can be made. Some issues that the users of this report should consider are listed below.

1. Since not all premium classes were included in the study, the actual average premium rate for a state may differ from the weighted premium rate index, which is based on Oregon's economy.

- 2. If different classes were selected or payroll from another state was used to weight the rates by class, the results might be substantially different.
- Several states use different classification systems and the conversion to the NCCI system is not perfect. Rates for similar classes were used wherever possible.
- 4. Many states have unique classes within the NCCI system or do not have rates for all of the classes. The data were adjusted to account for the classes without rates. When a state had more than one class included in a single NCCI class, the rates were averaged.

- 5. The premium rate listed for a class in any state may not be the rate which an employer in that state would pay. Premium rates for an employer are adjusted based on the employer's experience rating, premium discounts, premium reductions associated with deductibles, retrospective rating, insurer deviations, schedule rating plans, and other modification plans.
- 6. In the competitive rating states, individual insurers may apply different load factors to the pure premium rate. This results in a range of premium rates which are available to an employer.
- 7. The premium rates do not reflect any dividends paid to employers.
- 8. This study is based on payroll rates. In **Washington**, hourly rates had to be converted to payroll rates. The Washington payroll data included overtime pay which may overstate the average wage for purposes of premium computation, and thus understate the effective average payroll rate.
- 9. The payroll basis may differ by state. In North Dakota, workers' compensation premium is based on the first \$15,600 of payroll per employee, per year. Anything over \$15,600 is exempt. In order to permit a comparison of North Dakota's index rate with those of other states lacking a payroll limitation, North Dakota's rates were adjusted according to the proportion of its payroll in each classification which was subject to a premium computation during fiscal year 1999. Nevada also has a payroll cap: \$36,000 of reportable payroll per employee, per employer, per year. However, no adjustment was made in Nevada's rates to compensate for its payroll limitation on workers' compensation premium. Payroll base exclusions (e.g., exclusion of vacation pay) exist in Oregon and South Dakota. Manual rates in these states have been reduced to reflect NCCI's estimate of the effect of these payroll exclusions on premium rates. Additionally, some states assess overtime at the full overtime wage, but most states use the normal hourly wage as the payroll basis for overtime hours. This study does not account for these differences in treatment of overtime.
- 10. The premium rates may include more than loss experience and insurer overhead. In some states, assessments are included in the rates, to fund state workers' compensation agencies or special funds.

- For states in which some employer assessment liability exists outside workers' compensation manual rates, assessments are factored into the rates for the purposes of this study, if possible. For example, the Oregon Workers' Compensation Division premium assessment is billed separately to Oregon employers, and is collected by carriers on behalf of the Department of Consumer & Business Services. This assessment is accounted for in Oregon's rate index, but its workday assessment is not. Assessments were also factored into the rates for the following states: Connecticut, Georgia, Kentucky, Maine, Massachusetts, Nebraska, New Jersey, New York, Ohio, and Vermont.
- 11. The data exclude self-insurers' experience.
- 12. The rates in a state are influenced by the types of employers and employees subject to the law, benefit levels, statutes of limitation, waiting periods, administration of the law, collective bargaining agreements, attorney activity, quality of the labor force, wage levels, medical fees, frequency of claims, loss control programs, and other factors.
- 13. States with state funds may operate in one of three ways. In North Dakota and Wyoming, workers' compensation is handled exclusively through a monopoly state fund. Ohio, Washington, and West Virginia allow workers' compensation insurance to be provided either by the state fund or through self-insurance. Competitive state fund states allow employers to choose between private insurers, the state fund, or self-insurance. In some competitive state fund states like Arizona, California, Colorado, Hawaii, Idaho, Minnesota, Missouri, Nevada, New Mexico, New York, Oregon, Pennsylvania, Rhode Island, Texas and Utah the funds use the same rates or loss costs that are used by other insurers. Kentucky, Louisiana, Maine, Maryland, Montana, Oklahoma, and South Carolina allow their state funds to set their own rates separate from those used by the private insurers in the state. Louisiana, Montana, and Oklahoma provided rates and market share information so that the private market and state fund rates could be weighted to derive manual rates. No state fund adjustment was performed for the remaining four states.

14. California's open rating law has no requirement that insurers write policies at or above pure premium levels. At the time of this study, most carriers were writing policies below the pure premium levels. To account for this, manual rates for California were calculated by multiplying the pure premium rates by a price level factor. This price level factor is a ratio of insurer premium rates charged to the advisory premium levels. The California Department of Insurance performed all calculations deriving California's manual rates and would not release documentation of these calculations.



#### APPENDIX 1 OCCUPATIONAL CLASSES USED FOR 2000 PREMIUM RATE RANKING

| Class<br>code | Scope of basic manual classifications                   | 1994-1996<br>Oregon<br><u>payroll</u> | 1994-1996<br>Oregon<br><u>losses</u> |
|---------------|---|---------------------------------------|--------------------------------------|
| 7219          | Trucking:NOC - All Employees & Drivers                  | \$926,884,397                         | \$74,902,319                         |
| 2702          | Logging or Lumbering & Drivers                          | \$364,614,088                         | \$71,744,280                         |
| 9079          | Restaurant NOC  | \$2,245,243,198                       | \$43,320,045                         |
| 8810          | Clerical Office Employees NOC                           | \$16,251,537,767                      | \$34,307,236                         |
| 5403          | Carpentry NOC   | \$157,330,292                         | \$29,132,774                         |
| 5645          | Carpentry - Detatched Dwellings                         | \$131,261,442                         | \$27,215,567                         |
| 7380          | Chauffeurs NOC  | \$614,503,587                         | \$22,490,267                         |
| 5551          | Roofing - All Kinds & Drivers                           | \$63,429,144                          | \$19,468,857                         |
| 8868          | COLLEGE: Professional Employees & Clerical              | \$5,609,102,802                       | \$18,918,564                         |
| 2731          | Planning or Molding Mill                                | \$320,904,828                         | \$17,679,401                         |
| 5183          | Plumbing NOC & Drivers                                  | \$322,704,486                         | \$17,307,668                         |
| 5190          | Electrical Wiring - Within Buildings & Drivers          | \$375,856,896                         | \$16,512,010                         |
| 8232          | Lumberyard: All Other Employees                         | \$430,952,139                         | \$16,066,165                         |
| 9015          | Buildings NOC - Operation by Owner                      | \$419,337,989                         | \$15,854,556                         |
| 6217          | Excavation NOC & Drivers                                | \$151,746,627                         | \$15,674,222                         |
| 8742          | Salespersons - Outside                                  | \$5,213,239,906                       | \$15,292,648                         |
| 8017          | STORE: Retail, NOC                                      | \$1,293,482,022                       | \$14,565,473                         |
| 3724          | Machinery/Equip Erection/Repair NOC & Driver            | \$183,112,016                         | \$14,417,961                         |
| 3507          | Agriculture or Construction Machinery Mfg               | \$369,973,127                         | \$14,133,282                         |
| 2802          | Carpentry - Shop Only & Drivers                         | \$372,185,112                         | \$13,764,944                         |
| 8824          | Retrmnt, Nrsing, Convlscnt Cntrs: Health Care Employees | \$458,507,082                         | \$13,152,497                         |
| 2915          | Veneer Products Manufacturing                           | \$255,639,807                         | \$13,113,609                         |
| 5445          | Wallboard Installation & Drivers                        | \$68,339,351                          | \$12,407,337                         |
| 9101          | COLLEGE: All other employees                            | \$393,628,416                         | \$12,192,322                         |
| 2710          | Saw Mill  | \$235,037,366                         | \$11,950,093                         |
| 8833          | Hospital: Professional Employees                        | \$1,211,300,040                       | \$11,624,162                         |
| 8033          | STORE: Meat, Grocery & Provission Combined - Retail NOC | \$554,397,108                         | \$11,220,802                         |
| 5221          | Concrete Work - Floors, Driveways & Drivers             | \$113,077,987                         | \$11,107,620                         |
| 5213          | Concrete Construction NOC                               | \$113,948,736                         | \$11,104,925                         |
| 3632          | Machine Shop NOC  | \$449,890,996                         | \$10,878,393                         |
| 5538          | Sheet Metal Work - NOC & Drivers                        | \$95,795,833                          | \$10,876,391                         |
| 5474          | Painting NOC & Shops, Drivers                           | \$77,376,461                          | \$10,861,255                         |
| 8018          | STORE: Wholesale NOC                                    | \$474,921,593                         | \$10,745,456                         |
| 37            | FARM: Field Crops & Drivers                             | \$224,071,992                         | \$9,903,164                          |
| 9052          | Hotel: All Other Employees, Sales & Drivers             | \$360,141,333                         | \$9,558,599                          |
| 7720          | Police Officers & Drivers                               | \$305,876,290                         | \$9,323,661                          |
| 9403          | Garbage Collection & Drivers                            | \$165,037,888                         | \$9,021,133                          |
| 8832          | Physician and Clerical                                  | \$2,470,619,308                       | \$8,219,961                          |
| 5506          | Street or Road Const: Paving or Repaving & Dvrs         | \$112,581,237                         | \$7,822,601                          |
| 5             | FARM: Nursery Employees & Drivers                       | \$326,575,498                         | \$7,551,985                          |
| 83            | FARM: Cattle Raising NOC & Drivers                      | \$58,158,063                          | \$7,191,264                          |
| 4299          | Printing  | \$223,624,852                         | \$7,088,158                          |
| 9102          | Park NOC - All Employees & Drivers                      | \$148,167,615                         | \$6,637,687                          |
| 5437          | Carpentry - Inst Cabinet Work Inter Trim                | \$79,563,763                          | \$6,562,196                          |
| 2812          | Cabinet Works - With Power Machinery                    | \$224,677,752                         | \$6,391,974                          |
| 5022          | Masonry - NOC   | \$58,111,970                          | \$6,196,087                          |
| 16            | FARM: Orchard & Drivers                                 | \$113,497,553                         | \$6,039,964                          |
| 3076          | Fireproof Equipment Manufacturing                       | \$274,647,136                         | \$6,016,059                          |
| 4304          | Newspaper Publishing                                    | \$69,057,293                          | \$5,588,341                          |
| 3681          | Television/Radio/Telephone/Telecomm. Device Mfg NOC     | \$629,913,133                         | \$5,508,027                          |

Source: Research and Analysis Section, Oregon Department of Consumer and Business Services (12/2000)

APPENDIX 2 VOLUNTARY PREMIUM LEVEL CHANGES 1996-2000

| <u>State</u>              | 1996<br><u>% change</u> 1 | 1997<br><u>% change</u> 1 | 1998<br><u>% change</u> 1 | 1999<br><u>% change</u> ¹ | 1/1/00<br><u>% change ²</u> | Changes after<br>1/1/00<br><u>% change</u> <sup>2</sup> |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|---|
| Alabama                   | (7.2)                     | 0.0                       | 2.5                       | (1.0)                     | 0.0                         | 4.4   |
| Alaska                    | (7.1)                     | (10.3)                    | (8.4)                     | (8.5)                     | 0.0                         | 7.9   |
| Arizona                   | (10.4)                    | (15.3)                    | (16.5)                    | (15.4)                    | 0.0                         | 0.0   |
| Arkansas                  | (8.0)                     | (4.7)                     | (9.1)                     | (4.1)                     | 0.0                         | (4.5)   |
| California                | 11.3                      | (6.2)                     | (2.5)                     | 0.0                       | 18.4                        | 0.0   |
| Colorado                  | (1.5)                     | 0.0                       | (0.1)                     | 3.4                       | 0.0                         | 0.0   |
| Connecticut               | 0.0                       | (10.3)                    | (10.0)                    | (7.8)                     | (4.4)                       | 0.0   |
| Delaware                  | NA                        | NA                        | NA                        | NA                        | NA                          | 0.0   |
| District of Columbia      | (5.2)                     | 0.0                       | (5.2)                     | (15.2)                    | 0.0                         | (0.4)   |
| Florida                   | 0.0                       | (11.3)                    | (1.7)                     | 1.6                       | 2.5                         | 0.0   |
| Georgia                   | (8.5)                     | (15.0)                    | (4.5)                     | 0.0                       | 0.0                         | 0.0   |
| Hawaii                    | (27.3)                    | (10.5)                    | 0.0                       | 0.0                       | 0.0                         | (8.9)   |
| Idaho                     | (7.8)                     | (5.5)                     | (10.0)                    | (6.0)                     | (1.7)                       | 0.0   |
| Illinois                  | (13.6)                    | (10.0)                    | (7.9)                     | (0.2)                     | 1.2                         | 0.0   |
| Indiana                   | (5.9)                     | (3.6)                     | (4.2)                     | 0.2                       | 0.1                         | 3.6   |
| lowa                      | (12.3)                    | (9.7)                     | 0.0                       | (0.5)                     | 0.0                         | 0.0   |
| Kansas                    | (10.4)                    | 0.0                       | (12.7)                    | (4.0)                     | (0.5)                       | 0.0   |
| Kentucky                  | (17.8)                    | (11.4)                    | (3.7)                     | (2.0)                     | 0.0                         | 3.1   |
| Louisiana                 | (11.6)                    | (11.7)                    | 0.0                       | (4.0)                     | 0.0                         | 0.0   |
| Maine                     | (10.9)                    | (12.5)                    | (10.6)                    | (3.5)                     | 0.0                         | 10.3  |
| Maryland                  | (12.8)                    | 0.0                       | (9.8)                     | 0.0                       | (3.4)                       | 0.0   |
| Massachusetts             | (12.2)                    | 0.0                       | (13.0)                    | (18.0)                    | 0.0                         | 0.0   |
| Michigan                  | (15.7)                    | (8.4)                     | (2.7)                     | (4.0)                     | (2.7)                       | 0.0   |
| Minnesota                 | (15.6)                    | (14.8)                    | (14.3)                    | (2.8)                     | (3.8)                       | 0.0   |
| Mississippi               | (11.3)                    | 3.3                       | 3.0                       | (6.7)                     | 0.0                         | 0.0   |
| Missouri                  | (5.4)                     | (10.0)                    | (12.2)                    | (4.5)                     | (2.0)                       | 0.0   |
| Montana                   | (14.6)                    | (8.4)                     | (12.8)                    | (7.4)                     | 0.0                         | (2.4)   |
| Nebraska                  | (2.7)                     | (10.8)                    | (12.8)                    | 2.4                       | 4.9                         | 0.0   |
| Nevada <sup>3</sup>       | NA                        | NA                        | (22.0)                    | (8.0)                     | 6.4                         | (1.9)   |
| New Hampshire             | (7.1)                     | (6.6)                     | (10.7)                    | (3.1)                     | 0.0                         | 0.0   |
| New Jersey                | (3.6)                     | (11.2)                    | (9.3)                     | (5.2)                     | (2.4)                       | 0.0   |
| New Mexico                | (6.9)                     | (16.4)                    | (14.8)                    | (15.1)                    | (22.8)                      | 0.0   |
| New York                  | (18.0)                    | (7.5)                     | (3.1)                     | 0.0                       | 0.0                         | 0.0   |
| North Carolina            | (15.3)                    | (13.7)                    | (1.1)                     | 0.0                       | 0.0                         | 0.0   |
| North Dakota <sup>4</sup> | NA                        | NA                        | NA                        | NA                        | NA                          | NA  |
| Ohio                      | NA                        | NA                        | NA                        | NA                        | NA                          | NA  |
| Oklahoma                  | (4.5)                     | (10.1)                    | (10.8)                    | 5.0                       | 0.0                         | 0.0   |
| Oregon                    | (1.8)                     | (10.5)                    | (15.6)                    | (4.8)                     | (2.2)                       | 0.0   |
| Pennsylvania              | NA                        | NA                        | NA                        | NA                        | NA                          | NA  |
| Rhode Island              | (34.6)                    | 0.0                       | (9.4)                     | 0.0                       | 0.0                         | 0.0   |
| South Carolina            | 0.0                       | (3.3)                     | 0.0                       | (11.7)                    | 0.0                         | 0.0   |
| South Dakota              | (6.0)                     | (8.5)                     | (12.7)                    | (9.5)                     | 0.0                         | 0.0   |
| Tennessee                 | 0.0                       | (8.2)                     | (7.0)                     | (9.0)                     | 0.0                         | 7.0   |
| Texas                     | NA                        | NA                        | NA                        | NA                        | NA                          | NA  |
| Utah                      | (10.1)                    | (11.9)                    | (9.6)                     | 0.0                       | 0.0                         | 0.0   |
| Vermont                   | (8.1)                     | (14.0)                    | (10.0)                    | 0.0                       | 0.0                         | 4.3   |
| Virginia                  | (13.1)                    | (4.7)                     | (1.8)                     | (9.5)                     | 0.0                         | 1.1   |
| Washington                | NA                        | NA                        | NA                        | NA                        | NA                          | NA  |
| West Virginia             | NA<br>NA                  | NA                        | NA                        | NA                        | NA                          | NA  |
| Wisconsin                 | 1.36                      | (4.07)                    | (4.1)                     | (1.2)                     | 0.0                         | (2.61)  |
| Wyoming                   | NA                        | NA                        | NA                        | NA                        | NA<br>NA                    | NA  |

#### NA=Not available

- <sup>1</sup> All data for this state, up to this point, is from the NCCI Annual Statistical Bulletin, 2000 Edition. Does not include changes in residual markets
- <sup>2</sup> Rate filings approved in 2000 from NCCI Report on the Effect of Rate Level Changes on Premium Third Quarter 2000.
- <sup>3</sup> Nevada premium is based on the first \$36,000 of reportable payroll per employee per employer per year. The limit increased from \$30,000 to \$33,000 on 1/1/95 and from \$33,000 to \$36,000 on 1/1/96.
- <sup>4</sup> North Dakota premium is based on the first \$15,600 of payroll per employee per employer per year.

#### **APPENDIX 3** 1999 ASSIGNED RISK POOL SIZE, BY STATE, FOR COVERAGES IN POOLS MANAGED BY NCCI

| <u>State</u>         | ARP as % of direct premiums written | 1999<br><u>Number of ARP risks</u> |
|----------------------|-------------------------------------|------------------------------------|
| Alabama              | 0.5%                                | 231                                |
| Alaska               | 10.0%                               | 7,170                              |
| Arizona              | 0.1%                                | 37                                 |
| Arkansas             | 3.8%                                | 3,599                              |
| Connecticut          | 2.2%                                | 7,098                              |
| Delaware             | 3.1%                                | 897                                |
| District of Columbia | 2.6%                                | 943                                |
| Georgia              | 1.6%                                | 4,658                              |
| Hawaii <sup>1</sup>  | -0.1%                               | NA                                 |
| Idaho                | 1.2%                                | 652                                |
| Illinois             | 2.3%                                | 16,404                             |
| Indiana              | 1.8%                                | 4,653                              |
| Iowa                 | 2.9%                                | 3,358                              |
| Kansas               | 7.6%                                | 9,759                              |
| Massachusetts        | 3.5%                                | NA                                 |
| Michigan             | 2.7%                                | NA                                 |
| Mississippi          | 3.4%                                | 2,043                              |
| Nebraska 1           | -0.3%                               | NA                                 |
| Nevada               | NA                                  | 579                                |
| New Hampshire        | 6.0%                                | 6,299                              |
| New Mexico           | 1.7%                                | 1,623                              |
| North Carolina       | 3.7%                                | NA                                 |
| Oregon               | 3.4%                                | 9,840                              |
| South Carolina       | 4.1%                                | 7,444                              |
| South Dakota         | 5.4%                                | 1,762                              |
| Tennessee            | 0.6%                                | 5,007                              |
| Vermont              | 5.4%                                | 2,570                              |
| Virginia             | 4.1%                                | 11,769                             |

NA=Not available

Source: *Management Summary 1999*, NCCI, 2000.

The reinsurance pool premium in these states include deferred installments on deposit premiums where such installment method is mandated.

|    | Class 5<br>Farm: Nursery |           | Clas<br>Farm: Orcha | ss 16<br>ord & Drivers | Class 37<br>Farm: Field Crops |       |
|----|--------------------------|-----------|---------------------|------------------------|-------------------------------|-------|
|    |                          | - (discip |                     |                        |                               |       |
| 1  | PA                       | 17.78     | FL                  | 18.00                  | FL                            | 16.92 |
| 2  | FL                       | 13.49     | OH                  | 16.47                  | OH                            | 13.40 |
| 3  | MN                       | 10.05     | LA                  | 14.42                  | LA                            | 12.57 |
| 4  | LA                       | 8.90      | NM                  | 11.96                  | NV                            | 10.58 |
| 5  | RI                       | 8.65      | CA                  | 10.51                  | CA                            | 10.49 |
| 6  | CO                       | 8.49      | RI                  | 10.32                  | MT                            | 10.03 |
| 7  | OH                       | 8.28      | NV                  | 9.55                   | VT                            | 9.80  |
| 8  | HI                       | 7.90      | HI                  | 9.07                   | DC                            | 9.57  |
| 9  | MT                       | 7.81      | MT                  | 8.74                   | DE                            | 9.13  |
| 10 | NH                       | 6.76      | OK                  | 8.35                   | OK                            | 8.71  |
| 11 | NV                       | 6.31      | MI                  | 8.15                   | AL                            | 8.52  |
| 12 | NY                       | 6.16      | MN                  | 7.67                   | RI                            | 8.47  |
| 13 | MI                       | 6.01      | CO                  | 7.62                   | TX                            | 8.33  |
| 14 | GA                       | 5.99      | IL                  | 7.59                   | CO                            | 8.29  |
| 15 | ND                       | 5.69      | MS                  | 7.56                   | ME                            | 8.13  |
| 16 | CA                       | 5.65      | DC                  | 7.16                   | MN                            | 7.67  |
| 17 | MS                       | 5.65      | NE                  | 6.90                   | HI                            | 7.48  |
| 18 | IL                       | 5.59      | UT                  | 6.59                   | MI                            | 7.41  |
| 19 | TX                       | 5.57      | ME                  | 6.56                   | GA                            | 7.28  |
| 20 | DE                       | 5.57      | TX                  | 6.56                   | KS                            | 7.08  |
| 21 | MO                       | 5.56      | AK                  | 6.55                   | IL                            | 6.90  |
| 22 | CT                       | 5.25      | MO                  | 6.51                   | KY                            | 6.77  |
| 23 | OK                       | 5.20      | TN                  | 6.33                   | AK                            | 6.55  |
| 24 | WY                       | 5.17      | NY                  | 6.12                   | AZ                            | 6.54  |
| 25 | AR                       | 5.04      | NC                  | 5.76                   | NJ                            | 6.34  |
| 26 | WV                       | 4.88      | VT                  | 5.69                   | Oregon                        | 6.13  |
| 27 | DC                       | 4.76      | ND                  | 5.69                   | MO                            | 6.06  |
| 28 | VT                       | 4.76      | CT                  | 5.40                   | NM                            | 5.83  |
| 29 | AK                       | 4.75      | Oregon              | 5.31                   | MS                            | 5.69  |
| 30 | NE                       | 4.63      | GA                  | 5.25                   | ND                            | 5.69  |
| 31 | KY                       | 4.55      | NJ                  | 5.23                   | WI                            | 5.65  |
| 32 | TN                       | 4.38      | SD                  | 5.22                   | CT                            | 5.62  |
| 33 | WI                       | 4.37      | DE                  | 5.09                   | ID                            | 5.43  |
| 34 | ID                       | 4.30      | KY                  | 5.00                   | NE                            | 5.40  |
| 35 | SD                       | 4.28      | WV                  | 4.88                   | NH                            | 5.28  |
| 36 | NJ                       | 4.28      | AL                  | 4.74                   | TN                            | 5.15  |
| 37 | ME                       | 4.12      | ID                  | 4.65                   | SD                            | 5.14  |
| 38 | KS                       | 3.94      | KS                  | 4.54                   | WV                            | 4.88  |
| 39 | MA                       | 3.92      | PA                  | 4.54                   | PA                            | 4.64  |
| 40 | WA                       | 3.86      | WI                  | 4.41                   | WA                            | 4.53  |
| 41 | AL                       | 3.76      | AR                  | 4.22                   | AR                            | 4.19  |
| 42 | AZ                       | 3.67      | NH                  | 4.14                   | NC                            | 4.10  |
| 43 | NM                       | 3.60      | AZ                  | 3.98                   | UT                            | 4.09  |
| 44 | SC                       | 3.47      | MD                  | 3.92                   | SC                            | 3.94  |
| 45 | MD                       | 3.39      | IN                  | 3.82                   | IA                            | 3.73  |
| 46 | NC                       | 3.37      | IA                  | 3.61                   | MA                            | 3.41  |
| 47 | IA                       | 3.24      | SC                  | 3.49                   | WY                            | 3.41  |
| 48 | IN                       | 3.17      | VA                  | 3.43                   | VA                            | 3.29  |
| 49 | Oregon                   | 2.97      | WY                  | 3.41                   | IN                            | 2.88  |
| 50 | VA                       | 2.47      | WA                  | 3.13                   | MD                            | 2.85  |
| 51 | UT                       | 2.37      | MA                  | 3.07                   | NY                            | -     |
| -  | -                        |           |                     |                        | •                             |       |

Note: The rates listed for each state are calculated manual rates and may include loss cost multipliers and assessments. Where states appear to have the same rate for a class, the ranking may be done based on the values prior to rounding to two decimal places. If the states have exactly the same calculated manual rate, they are ranked alphabetically.

Source: Research and Analysis Section, Oregon Department of Consumer and Business Services (12/00)

| Class 83<br>Farm: Cattle |       |          | lass 2702<br>or Lumbering | Class 2710<br>Saw Mill |       |
|--------------------------|-------|----------|---------------------------|------------------------|-------|
| MT                       | 16.23 | HI       | 61.04                     | ОН                     | 27.52 |
| FL                       | 14.93 | KY       | 55.43                     | MN                     | 21.73 |
| Oregon                   | 14.38 | WV       | 47.90                     | ND                     | 18.56 |
| CA                       | 13.86 | NV       | 47.26                     | RI                     | 17.66 |
| LA                       | 13.85 | UT       | 44.84                     | LA                     | 17.58 |
| NM                       | 13.76 | MO       | 42.26                     | FL                     | 17.57 |
|                          | 13.76 |          |                           |                        |       |
| NV                       |       | IL       | 41.25                     | IL<br>OV               | 16.72 |
| OH                       | 13.10 | LA       | 39.91                     | OK<br>MO               | 14.58 |
| AZ                       | 12.78 | NY       | 38.36                     | MO                     | 14.11 |
| RI                       | 11.86 | DC       | 36.84                     | MI                     | 14.08 |
| CO                       | 11.81 | WI       | 35.62                     | CT                     | 13.92 |
| TX                       | 10.44 | RI       | 35.57                     | KY                     | 13.91 |
| DC                       | 9.86  | CT       | 35.31                     | CA                     | 13.80 |
| ME                       | 9.65  | TN       | 33.89                     | NV                     | 13.04 |
| AK                       | 9.62  | DE       | 33.25                     | AL                     | 12.41 |
| HI                       | 9.62  | MD       | 33.03                     | HI                     | 12.40 |
| ID                       | 9.36  | MN       | 32.67                     | TN                     | 11.91 |
| AL                       | 8.95  | MS       | 32.09                     | MT                     | 11.62 |
| NH                       | 8.74  | MT       | 31.90                     | DC                     | 11.44 |
| WA                       | 8.73  | MI       | 31.81                     | SD                     | 11.38 |
| GA                       | 8.61  | ME       | 31.77                     | TX                     | 11.11 |
| OK                       | 8.54  | GA       | 29.93                     | NJ                     | 11.08 |
| VT                       | 8.36  | NJ       | 29.52                     | CO                     | 11.03 |
| DE                       | 8.30  | NH       | 28.30                     | WV                     | 10.98 |
| NY                       | 8.16  | PA       | 28.03                     | WI                     | 10.66 |
| MA                       | 7.78  | IA       | 27.05                     | NE                     | 10.49 |
| CT                       | 7.70  | CA       | 25.59                     | KS                     | 10.34 |
| MN                       | 7.67  | CO       | 24.82                     | NH                     | 10.03 |
| PA                       | 7.55  | AZ       | 24.80                     | AK                     | 9.88  |
| MO                       | 7.53  | AK       | 24.54                     | ME                     | 9.61  |
| TN                       | 7.43  | WA       | 24.17                     | DE                     | 9.51  |
| MS                       | 6.99  | OH       | 24.09                     | ID                     | 9.24  |
| IL                       | 6.87  | VT       | 22.37                     | IA                     | 9.17  |
| WY                       | 6.79  | ID       | 22.01                     | MA                     | 8.51  |
| MI                       | 6.78  | MA       | 21.77                     | NY                     | 8.49  |
| WI                       | 6.75  | Oregon   | 21.65                     | MD                     | 8.39  |
| SC                       | 6.73  | AR       | 21.60                     | MS                     | 8.29  |
| AR                       | 6.62  | FL       | 21.12                     | VT                     | 8.08  |
| KS                       | 6.47  | SD       | 20.69                     | GA                     | 8.01  |
| SD                       | 6.46  | IN       | 19.65                     | WA                     | 7.80  |
| NJ                       | 6.34  | AL       | 19.17                     | NC                     | 7.59  |
| KY                       | 6.05  | ND       | 18.56                     | NM                     | 7.52  |
| VA                       | 5.72  | OK       | 18.34                     | PA                     | 7.33  |
| ND                       | 5.69  | NE<br>NE | 17.62                     | IN                     | 7.26  |
| NE                       | 5.35  | KS       | 16.94                     | Oregon                 | 7.08  |
| WV                       | 4.88  | SC SC    | 16.83                     | VA                     | 7.03  |
| IA                       | 4.84  | NM       | 16.48                     | AR                     | 6.83  |
| UT                       | 4.84  | TX       | 16.45                     | UT                     | 4.85  |
| MD                       | 4.45  | VA       | 15.19                     | SC                     | 4.83  |
|                          |       |          |                           |                        |       |
| NC                       | 4.32  | WY       | 9.22                      | AZ                     | 4.51  |
| IN                       | 4.19  | NC       | -                         | WY                     | 4.17  |

| Class 2731<br>Planing/Molding Mill |            |        | 2802<br>Shop Only | Class 2812<br>Cabinet Work-Power M |             |
|------------------------------------|------------|--------|-------------------|------------------------------------|-------------|
|                                    | ding ivini |        | опор от           | Cubinet Work                       | 1 ower much |
| ND                                 | 18.56      | WV     | 14.98             | WV                                 | 14.98       |
| NY                                 | 11.18      | CA     | 14.86             | DC                                 | 14.05       |
| FL                                 | 10.97      | FL     | 13.28             | FL                                 | 10.53       |
| OH                                 | 10.83      | LA     | 12.22             | OK                                 | 10.37       |
| RI                                 | 10.50      | RI     | 12.15             | OH                                 | 9.00        |
| MI                                 | 9.89       | NY     | 12.05             | NV                                 | 8.96        |
| OK                                 | 9.32       | TX     | 11.35             | AL                                 | 8.78        |
| CA                                 | 8.95       | NH     | 10.16             | LA                                 | 8.73        |
| IL                                 | 8.29       | MI     | 9.95              | ID                                 | 8.69        |
| DE                                 | 8.12       | ID     | 9.65              | NY                                 | 7.77        |
| NV                                 | 8.02       | OK     | 9.62              | RI                                 | 7.64        |
| ID                                 | 7.93       | AR     | 9.57              | CA                                 | 7.36        |
| LA                                 | 7.69       | GA     | 9.43              | HI                                 | 7.06        |
| CO                                 | 7.30       | MT     | 9.32              | NH                                 | 6.97        |
| DC                                 | 6.89       | CT     | 8.42              | MT                                 | 6.91        |
| Oregon                             | 6.85       | NV     | 8.22              | TX                                 | 6.83        |
| AK                                 | 6.81       | HI     | 8.22              | WY                                 | 6.47        |
| NJ                                 | 6.71       | CO     | 8.18              | CO                                 | 6.38        |
| HI                                 | 6.63       | DE     | 8.12              | AK                                 | 6.35        |
| WA                                 | 6.53       | OH     | 8.04              | GA                                 | 6.33        |
| CT                                 | 6.32       | IL     | 8.00              | KY                                 | 6.01        |
| MT                                 | 6.32       | ME     | 7.81              | ME                                 | 5.98        |
| PA                                 | 6.04       | DC     | 7.50              | VT                                 | 5.90        |
| WV                                 | 5.95       | AK     | 6.90              | MS                                 | 5.89        |
| GA                                 | 5.83       | AZ     | 6.80              | IL                                 | 5.83        |
| AL                                 | 5.81       | NJ     | 6.71              | NE                                 | 5.81        |
| MN                                 | 5.75       | AL     | 6.52              | WI                                 | 5.68        |
| WI                                 | 5.43       | MO     | 6.14              | ND                                 | 5.51        |
| NH                                 | 5.42       | PA     | 6.04              | AZ                                 | 5.29        |
| NE<br>NE                           | 5.40       | WA     | 5.93              | WA                                 | 5.24        |
| TX                                 | 5.38       | TN     | 5.89              | TN                                 | 5.19        |
| IA<br>IA                           | 5.32       | SD     | 5.89              | CT                                 | 5.19        |
| MO                                 | 5.25       | VT     | 5.71              | SC                                 | 4.97        |
| ME                                 | 4.93       | ND     | 5.51              | MO                                 | 4.96        |
|                                    |            | KY     |                   |                                    |             |
| AZ                                 | 4.86       |        | 5.45              | NC<br>DE                           | 4.95        |
| SC<br>NC                           | 4.79       | Oregon | 5.38              |                                    | 4.79        |
| NC<br>TN                           | 4.66       | NC     | 5.37              | Oregon                             | 4.76        |
| TN                                 | 4.60       | MA     | 5.34              | AR                                 | 4.75        |
| MA                                 | 4.60       | KS     | 5.27              | SD                                 | 4.73        |
| VT                                 | 4.42       | IA     | 5.01              | MN                                 | 4.64        |
| WY                                 | 4.17       | WI     | 5.01              | NJ                                 | 4.52        |
| AR                                 | 4.00       | MS     | 4.74              | KS                                 | 4.16        |
| NM                                 | 3.78       | SC     | 4.56              | MI                                 | 4.08        |
| SD                                 | 3.73       | UT     | 4.51              | PA                                 | 4.04        |
| IN                                 | 3.64       | NM     | 4.38              | IN                                 | 3.33        |
| KY                                 | 3.60       | NE     | 4.34              | IA                                 | 3.22        |
| KS                                 | 3.52       | MD     | 4.30              | UT                                 | 3.21        |
| MD                                 | 3.45       | IN     | 4.29              | VA                                 | 3.17        |
| MS                                 | 3.24       | MN     | 3.41              | NM                                 | 3.10        |
| VA                                 | 3.04       | VA     | 3.21              | MD                                 | 3.05        |
| UT                                 | 2.52       | WY     | 2.47              | MA                                 | -           |

| Class 2915 |            | Class 3076<br>Fireproof Equipment Mfg |             | Class 3507<br>Ag/Constr Machinery Mfg |              |
|------------|------------|---------------------------------------|-------------|---------------------------------------|--------------|
| Veneer Pro | oducts Mfg | Fireproof Eq                          | uipment Mfg | Ag/Constr Ma                          | achinery Mfg |
| NIX        | 12.04      | N137                                  | 7.54        | DE                                    | 10.25        |
| NY         | 13.04      | NY                                    | 7.54        | DE                                    | 10.25        |
| RI         | 10.40      | FL                                    | 7.33        | FL<br>TV                              | 8.19         |
| LA         | 9.43       | ID<br>TV                              | 7.25        | TX                                    | 7.93         |
| NV         | 8.67       | TX                                    | 6.96        | IL<br>M                               | 7.65         |
| OK         | 8.66       | LA                                    | 6.74        | MI                                    | 7.43         |
| FL         | 8.59       | NV                                    | 6.66        | GA                                    | 7.09         |
| CA         | 8.18       | NJ                                    | 6.52        | ID<br>NI                              | 7.03         |
| DE         | 8.12       | OH                                    | 6.41        | NJ                                    | 6.97         |
| MI         | 7.77       | DE                                    | 6.25        | LA                                    | 6.97         |
| HI         | 7.70       | HI                                    | 6.15        | CA                                    | 6.57         |
| VA         | 7.62       | MT                                    | 6.06        | RI                                    | 6.52         |
| CT         | 7.46       | IL                                    | 6.02        | MO                                    | 6.51         |
| DC         | 7.16       | OK                                    | 5.92        | NV                                    | 6.34         |
| CO         | 7.10       | CA                                    | 5.79        | CT                                    | 6.12         |
| KY         | 7.09       | PA                                    | 5.64        | OK                                    | 6.00         |
| OH         | 7.01       | AL                                    | 5.40        | DC                                    | 5.71         |
| NH         | 6.90       | MO                                    | 5.22        | NY                                    | 5.50         |
| IL         | 6.87       | DC                                    | 5.10        | HI                                    | 5.29         |
| TX         | 6.83       | VT                                    | 5.07        | CO                                    | 5.27         |
| WI         | 6.73       | GA                                    | 4.97        | OH                                    | 5.11         |
| NJ         | 6.71       | CO                                    | 4.85        | MT                                    | 4.99         |
| WA         | 6.51       | CT                                    | 4.76        | WA                                    | 4.87         |
| WY         | 6.47       | WI                                    | 4.60        | NH                                    | 4.76         |
| GA         | 6.42       | WV                                    | 4.56        | WV                                    | 4.56         |
| TN         | 6.28       | AK                                    | 4.18        | TN                                    | 4.47         |
| Oregon     | 6.25       | MN                                    | 3.96        | AL                                    | 4.37         |
| AK         | 6.15       | MA                                    | 3.85        | VT                                    | 4.36         |
| WV         | 5.95       | MI                                    | 3.84        | Oregon                                | 4.33         |
| ME         | 5.68       | KS                                    | 3.60        | ND                                    | 4.17         |
| IN         | 5.57       | TN                                    | 3.59        | MN                                    | 4.01         |
| MN         | 5.56       | IA                                    | 3.54        | PA                                    | 3.92         |
| ND         | 5.51       | RI                                    | 3.53        | WY                                    | 3.91         |
| MO         | 5.47       | KY                                    | 3.39        | MA                                    | 3.90         |
| ID         | 5.41       | IN                                    | 3.38        | WI                                    | 3.88         |
| IA         | 4.84       | NH                                    | 3.32        | AK                                    | 3.73         |
| KS         | 4.60       | MS                                    | 3.20        | SC                                    | 3.69         |
| MT         | 4.59       | NC                                    | 3.16        | ME                                    | 3.57         |
| AL         | 4.53       | NM                                    | 3.08        | NE                                    | 3.45         |
| NE         | 4.24       | ME                                    | 2.90        | NM                                    | 3.42         |
| VT         | 4.23       | SD                                    | 2.90        | KS                                    | 3.41         |
| SD         | 4.14       | SC                                    | 2.89        | SD                                    | 3.37         |
| MD         | 4.09       | UT                                    | 2.76        | MS                                    | 3.20         |
| NM         | 3.95       | AZ                                    | 2.69        | MD                                    | 3.19         |
| NC         | 3.90       | Oregon                                | 2.64        | KY                                    | 3.18         |
| SC         | 3.81       | AR                                    | 2.55        | AR                                    | 3.06         |
| MS         | 3.80       | WA                                    | 2.51        | IA                                    | 2.87         |
| AR         | 3.50       | MD                                    | 2.41        | AZ                                    | 2.84         |
| AZ         | 3.46       | VA                                    | 2.35        | VA                                    | 2.67         |
| UT         | 3.12       | WY                                    | 2.20        | UT                                    | 2.64         |
| PA         | 2.78       | NE                                    | 2.03        | IN                                    | 2.48         |
| MA         | -          | ND                                    | -           | NC                                    | 2.34         |
|            |            |                                       |             |                                       |              |

| Class 3632<br>Machine Shop NOC |      | Class 3681 Television/Telecom Device Mfg |      | Class 3724<br>Machine/Equipment Repair |       |
|--------------------------------|------|--|------|--|-------|
| FL                             | 8.84 | WV                                       | 4.56 | MT                                     | 15.93 |
| rl<br>RI                       | 7.53 | W V<br>HI                                | 3.86 |  | 15.93 |
| AL                             | 7.10 | MO                                       | 3.74 | ME<br>FL                               | 13.99 |
| TX                             | 6.54 | NV                                       | 3.61 | OH                                     | 13.19 |
| DC                             | 6.54 | OK                                       | 3.44 | RI                                     | 11.36 |
| LA                             | 6.13 | OH                                       | 3.37 | NV                                     | 11.30 |
| DE                             | 5.83 | DE                                       | 3.30 | IL                                     | 11.19 |
| NV                             | 5.79 | MI                                       | 3.27 | AL                                     | 11.19 |
| OK                             | 5.76 | TX                                       | 3.24 | NY                                     | 10.85 |
| NY                             | 5.67 | NY                                       | 3.14 | KY                                     | 10.79 |
| OH                             | 5.49 | RI                                       | 3.11 | CO                                     | 10.75 |
| HI                             | 5.47 | CO                                       | 2.90 | MN                                     | 10.64 |
| WV                             | 5.46 | AK                                       | 2.85 | MI                                     | 10.28 |
| MI                             | 5.34 | PA                                       | 2.79 | LA                                     | 9.98  |
| IL                             | 5.26 | GA                                       | 2.79 | NH                                     | 9.69  |
| TN                             | 5.06 | NH                                       | 2.75 | IA                                     | 9.33  |
| GA                             | 4.95 | WY                                       | 2.71 | Oregon                                 | 9.25  |
| MT                             | 4.95 | MT                                       | 2.59 | VT                                     | 8.97  |
| ID                             | 4.89 | CT                                       | 2.52 | MO                                     | 8.75  |
| AK                             | 4.76 | KY                                       | 2.47 | OK                                     | 8.72  |
| CO                             | 4.56 | ND                                       | 2.40 | MS                                     | 8.25  |
| VT                             | 4.51 | IA                                       | 2.38 | TN                                     | 7.83  |
| KY                             | 4.26 | FL                                       | 2.36 | GA                                     | 7.78  |
| MS                             | 4.07 | MS                                       | 2.27 | KS                                     | 7.70  |
| MO                             | 4.00 | IN                                       | 2.27 | WI                                     | 7.58  |
| ME                             | 3.97 | IL                                       | 2.25 | CA                                     | 7.10  |
| PA                             | 3.92 | WI                                       | 2.21 | AK                                     | 6.85  |
| CT                             | 3.92 | NE                                       | 2.18 | CT                                     | 6.75  |
| WY                             | 3.91 | KS                                       | 2.16 | DC                                     | 6.68  |
| CA                             | 3.74 | CA                                       | 2.09 | TX                                     | 6.68  |
| ND                             | 3.63 | TN                                       | 2.03 | NC                                     | 6.57  |
| NC                             | 3.62 | AR                                       | 2.01 | SC                                     | 6.52  |
| NH                             | 3.57 | MN                                       | 2.00 | DE                                     | 6.38  |
| IA                             | 3.48 | LA                                       | 1.88 | MA                                     | 6.35  |
| MN                             | 3.44 | DC                                       | 1.86 | AR                                     | 6.33  |
| WI                             | 3.34 | VT                                       | 1.81 | HI                                     | 6.33  |
| AR                             | 3.30 | ME                                       | 1.78 | PA                                     | 6.08  |
| NJ                             | 3.25 | AL                                       | 1.67 | WA                                     | 5.97  |
| NE                             | 3.14 | NJ                                       | 1.53 | ID                                     | 5.96  |
| WA                             | 3.07 | SD                                       | 1.44 | AZ                                     | 5.91  |
| Oregon                         | 3.03 | SC                                       | 1.32 | IN                                     | 5.56  |
| NM                             | 2.71 | MA                                       | 1.30 | NM                                     | 5.55  |
| VA                             | 2.68 | Oregon                                   | 1.22 | NJ                                     | 5.47  |
| KS                             | 2.68 | UT                                       | 1.21 | VA                                     | 5.06  |
| MD                             | 2.59 | NM                                       | 1.15 | NE                                     | 4.99  |
| IN                             | 2.52 | NC                                       | 1.13 | SD                                     | 4.94  |
| SD                             | 2.38 | WA                                       | 1.08 | WV                                     | 4.56  |
| MA                             | 2.37 | VA                                       | 1.00 | MD                                     | 4.41  |
| SC                             | 2.20 | AZ                                       | 0.97 | WY                                     | 3.91  |
| UT                             | 2.07 | MD                                       | 0.89 | UT                                     | 3.86  |
| AZ                             | 1.98 | ID                                       | 0.60 | ND                                     | -     |

| Class 4299<br>Printing |              | Class 4304<br>Newspaper Publishing |              | Class 5022<br>Masonry NOC |                |
|------------------------|--------------|------------------------------------|--------------|---------------------------|----------------|
| RI                     | 6.66         | NY                                 | 9.44         | FL                        | 25.86          |
| NY<br>NY               | 4.75         | FL                                 | 8.92         | RI                        | 25.10          |
| FL                     | 4.53         | ID                                 | 8.87         | NY                        | 23.86          |
| AL                     | 4.41         | LA                                 | 7.61         | NH                        | 21.62          |
| NV                     | 4.20         | MI                                 | 7.53         | CT                        | 21.53          |
| IL                     | 4.20         | PA                                 | 7.29         | ME                        | 21.08          |
| CO                     | 4.02         | CA                                 | 7.29         | DC                        | 19.82          |
| DE                     | 4.01         | CT                                 | 6.61         | LA                        | 18.69          |
| NH                     | 3.96         | GA                                 | 6.31         | MA                        | 18.25          |
| TX                     |              | OK                                 | 6.26         | HI                        |                |
| LA                     | 3.96<br>3.92 | NV                                 | 6.02         | CO                        | 16.75<br>16.40 |
| CA                     | 3.85         | DC                                 |              | IL                        | 16.12          |
| OK                     |              | CO                                 | 5.86<br>5.70 | AL                        |                |
| PA                     | 3.72<br>3.65 | HI                                 | 5.62         | TX                        | 15.68          |
|                        |              |                                    |              |                           | 15.68          |
| OH                     | 3.56         | TX                                 | 5.42         | MT                        | 15.18          |
| NE<br>MN               | 3.35         | AK                                 | 5.37         | WI                        | 14.66          |
| MN                     | 3.15         | DE                                 | 5.25         | WV                        | 14.51          |
| MI                     | 3.15         | IA<br>A D                          | 5.05         | MI                        | 14.20          |
| ID<br>DC               | 3.12         | AR                                 | 5.02         | CA                        | 13.73          |
| DC                     | 3.12         | IL                                 | 4.98         | OK                        | 13.17          |
| MO                     | 3.00         | AL                                 | 4.85         | OH                        | 13.12          |
| CT                     | 2.98         | MS                                 | 4.66         | MN                        | 12.89          |
| MT                     | 2.96         | Oregon                             | 4.63         | WA                        | 12.52          |
| NJ                     | 2.76         | RI                                 | 4.61         | KY                        | 12.45          |
| AK                     | 2.75         | TN                                 | 4.43         | NV                        | 12.32          |
| HI                     | 2.72         | MT                                 | 4.30         | GA                        | 12.12          |
| ME                     | 2.66         | NH                                 | 4.17         | TN                        | 11.50          |
| GA                     | 2.65         | MO                                 | 4.16         | NJ                        | 11.08          |
| WI                     | 2.64         | ME                                 | 4.13         | IA                        | 10.93          |
| Oregon                 | 2.53         | WI                                 | 4.08         | MS                        | 10.90          |
| IA                     | 2.51         | NE                                 | 3.98         | MO                        | 10.63          |
| VT                     | 2.45         | VT                                 | 3.94         | VT                        | 10.59          |
| MA                     | 2.34         | OH                                 | 3.80         | AK                        | 10.59          |
| TN                     | 2.32         | SD                                 | 3.69         | KS                        | 10.32          |
| MS                     | 2.12         | MA                                 | 3.64         | NC                        | 9.66           |
| WA                     | 2.12         | NC                                 | 3.58         | DE                        | 9.61           |
| KS                     | 2.07         | MN                                 | 3.15         | NM                        | 9.26           |
| SC                     | 2.04         | NM                                 | 3.02         | PA                        | 9.23           |
| AZ                     | 2.00         | IN                                 | 2.98         | AZ                        | 9.15           |
| KY                     | 1.95         | AZ                                 | 2.93         | Oregon                    | 8.60           |
| NC                     | 1.88         | SC                                 | 2.89         | MD                        | 8.52           |
| MD                     | 1.82         | KS                                 | 2.83         | ND                        | 8.12           |
| SD                     | 1.80         | KY                                 | 2.60         | ID                        | 7.92           |
| NM                     | 1.76         | MD                                 | 2.59         | UT                        | 7.84           |
| AR                     | 1.70         | WA                                 | 2.54         | NE                        | 7.63           |
| IN                     | 1.66         | UT                                 | 2.28         | SD                        | 7.12           |
| WV                     | 1.60         | NJ                                 | 2.13         | VA                        | 6.51           |
| WY                     | 1.42         | VA                                 | 2.03         | SC                        | 6.36           |
| UT                     | 1.30         | WV                                 | 1.60         | AR                        | 5.90           |
| VA                     | 1.10         | WY                                 | 1.42         | WY                        | 5.60           |
| ND                     | 1.01         | ND                                 | 1.01         | IN                        | 5.32           |

| Class 5183<br>Plumbing NOC |       | Class 5190<br>Elec Wiring within bldgs |       | Class 5213<br>Concrete Constr NOC |       |
|----------------------------|-------|--|-------|-----------------------------------|-------|
| FL                         | 11.67 | FL                                     | 10.30 | FL                                | 30.43 |
| IL                         | 9.69  | TX                                     | 8.26  | VT                                | 26.88 |
| NY                         | 9.64  | NV                                     | 8.20  | IL                                | 26.63 |
| NV                         | 9.16  | NY                                     | 7.69  | WV                                | 26.36 |
| RI                         | 8.52  | LA                                     | 7.48  | NY                                | 25.04 |
| TX                         | 8.38  | IL<br>IL                               | 7.48  | NH<br>NH                          | 24.13 |
| CT                         | 8.29  | MT                                     | 6.62  | MA                                | 23.00 |
| DC                         | 8.13  | CO                                     | 6.51  | DC                                | 22.56 |
| NH                         | 8.11  | CA                                     | 6.45  | LA                                | 22.50 |
| MT                         | 8.01  | OK                                     | 6.37  | MI                                | 19.17 |
| CO                         | 7.93  | OH                                     | 5.99  | RI                                | 18.23 |
| MN                         | 7.40  | NH                                     | 5.91  | TX                                | 17.96 |
| OK                         | 7.33  | AL                                     | 5.82  | AL                                | 15.89 |
| CA                         | 7.31  | HI                                     | 5.80  | CO                                | 15.67 |
| AL                         | 7.16  | NC                                     | 5.71  | ME                                | 15.59 |
| OH                         | 7.08  | MS                                     | 5.60  | CT                                | 13.96 |
| WA                         | 6.73  | WY                                     | 5.60  | NE                                | 13.77 |
| WV                         | 6.65  | AK                                     | 5.46  | PA                                | 13.47 |
| LA                         | 6.63  | DC                                     | 5.44  | ОН                                | 13.26 |
| HI                         | 5.97  | CT                                     | 5.38  | OK                                | 12.73 |
| DE                         | 5.96  | WI                                     | 5.36  | NV                                | 12.67 |
| MO                         | 5.94  | GA                                     | 5.16  | MN                                | 12.65 |
| MA                         | 5.92  | DE                                     | 5.07  | NC                                | 12.56 |
| SD                         | 5.88  | AR                                     | 5.02  | NJ                                | 12.38 |
| GA                         | 5.86  | WV                                     | 5.02  | MT                                | 12.28 |
| MS                         | 5.80  | KY                                     | 4.74  | HI                                | 12.12 |
| ME                         | 5.74  | PA                                     | 4.72  | SD                                | 11.80 |
| MI                         | 5.72  | SC                                     | 4.67  | MO                                | 11.45 |
| PA                         | 5.62  | MN                                     | 4.60  | TN                                | 11.20 |
| WY                         | 5.60  | ID                                     | 4.56  | GA                                | 10.87 |
| KY                         | 5.53  | MO                                     | 4.56  | MD                                | 10.74 |
| WI                         | 5.36  | TN                                     | 4.51  | KS                                | 10.50 |
| TN                         | 5.34  | RI                                     | 4.43  | AR                                | 10.42 |
| AZ                         | 5.19  | MD                                     | 4.34  | ID                                | 10.28 |
| NC                         | 5.18  | AZ                                     | 4.20  | MS                                | 10.21 |
| VT                         | 5.17  | KS                                     | 4.16  | UT                                | 10.21 |
| KS                         | 5.15  | ME                                     | 4.05  | DE                                | 10.16 |
| MD                         | 5.11  | SD                                     | 3.98  | KY                                | 9.97  |
| AK                         | 5.05  | MI                                     | 3.87  | CA                                | 9.71  |
| IA                         | 5.01  | IA                                     | 3.84  | WA                                | 9.67  |
| Oregon                     | 4.94  | MA                                     | 3.84  | IA                                | 9.18  |
| NJ                         | 4.91  | UT                                     | 3.74  | AZ                                | 9.15  |
| SC                         | 4.58  | NJ                                     | 3.62  | WI                                | 9.14  |
| VA                         | 4.53  | Oregon                                 | 3.58  | Oregon                            | 9.13  |
| ND                         | 4.48  | VT                                     | 3.47  | AK                                | 8.95  |
| NM                         | 4.34  | WA                                     | 3.38  | SC                                | 8.58  |
| NE                         | 4.25  | NE                                     | 3.35  | VA                                | 7.51  |
| AR                         | 4.16  | ND                                     | 3.34  | NM                                | 7.17  |
| ID                         | 3.95  | NM                                     | 3.24  | ND                                | 6.89  |
| UT                         | 3.35  | IN                                     | 3.00  | IN                                | 6.68  |
| IN                         | 3.00  | VA                                     | 2.79  | WY                                | 4.94  |
|                            |       |  |       |                                   |       |

| Class 5221<br>Concrete-Floors/Driveways |       | Class 5403<br>Carpentry NOC |       | Class 5437<br>Carpentry- Cabinet/Int Trim |       |
|---|-------|-----------------------------|-------|---|-------|
| WV                                      | 26.36 | LA                          | 28.16 | FL  | 24.94 |
| NY                                      | 17.20 | FL                          | 27.55 | CA  | 17.18 |
| RI                                      | 16.24 | FL<br>HI                    | 26.14 | LA<br>LA                                  | 16.34 |
| FL                                      | 16.01 | MN                          | 25.55 | WV  | 14.98 |
| DC                                      | 15.15 | ME                          | 22.26 | OH  | 13.46 |
| PA                                      | 13.13 | CT                          | 19.30 | CT  | 12.47 |
| LA                                      | 13.22 | WI                          | 19.05 | MN  | 12.47 |
| MT                                      | 12.87 | IL                          | 18.16 | TX  | 11.87 |
| CT                                      | 12.52 | RI                          | 18.07 | RI  | 11.65 |
| AL                                      | 10.52 | AZ                          | 17.78 | IL  | 10.37 |
| ID                                      | 10.45 | AL                          | 17.52 | MS  | 10.23 |
| CO                                      | 10.28 | GA                          | 17.22 | MT  | 10.10 |
| IL .                                    | 10.27 | CA                          | 17.18 | AL  | 9.33  |
| MA                                      | 10.20 | NH                          | 16.38 | CO  | 9.32  |
| OH                                      | 10.13 | NY                          | 16.29 | NV  | 9.26  |
| TX                                      | 10.11 | TX                          | 16.05 | ND  | 9.08  |
| NV                                      | 9.76  | MT                          | 15.83 | HI  | 9.03  |
| MN                                      | 9.48  | WV                          | 14.98 | SC  | 8.68  |
| WA                                      | 8.89  | CO                          | 14.93 | OK  | 8.60  |
| MI                                      | 8.75  | KY                          | 14.63 | TN  | 8.60  |
| HI                                      | 8.60  | OK                          | 14.54 | UT  | 8.54  |
| OK                                      | 8.36  | MS                          | 14.54 | GA  | 8.43  |
| WI                                      | 8.19  | ID                          | 14.19 | ME  | 8.24  |
| Oregon                                  | 7.95  | MA                          | 14.15 | NH  | 8.18  |
| GA                                      | 7.95  | Oregon                      | 13.84 | AK  | 8.12  |
| NH                                      | 7.74  | MI                          | 13.22 | WI  | 8.05  |
| NJ                                      | 7.54  | DC                          | 13.12 | KY  | 7.97  |
| CA                                      | 7.32  | SC                          | 12.81 | MA  | 7.91  |
| DE                                      | 7.27  | NV                          | 12.71 | NJ  | 7.83  |
| MO                                      | 7.21  | SD                          | 12.50 | KS  | 7.79  |
| VT                                      | 7.19  | IA                          | 12.01 | NC  | 7.41  |
| ND                                      | 6.89  | NC                          | 11.48 | MO  | 7.31  |
| TN                                      | 6.81  | VT                          | 11.45 | MI  | 7.27  |
| KS                                      | 6.80  | OH                          | 11.09 | ID  | 6.95  |
| IA                                      | 6.42  | NJ                          | 10.93 | AR  | 6.71  |
| NE                                      | 6.32  | TN                          | 10.83 | Oregon                                    | 6.71  |
| MD                                      | 6.11  | WA                          | 10.18 | DE  | 6.50  |
| ME                                      | 5.86  | MO                          | 9.81  | NY  | 6.24  |
| MS                                      | 5.81  | AR                          | 9.74  | DC  | 6.13  |
| WY                                      | 5.60  | PA                          | 9.69  | MD  | 6.09  |
| AZ                                      | 5.41  | KS                          | 9.51  | VT  | 5.86  |
| AK                                      | 5.38  | DE                          | 9.50  | AZ  | 5.62  |
| UT                                      | 5.31  | NE                          | 9.22  | WY  | 5.60  |
| NM                                      | 4.97  | ND                          | 9.08  | WA  | 5.38  |
| NC                                      | 4.76  | AK                          | 8.95  | PA  | 5.34  |
| KY                                      | 4.54  | MD                          | 8.67  | VA  | 5.22  |
| VA                                      | 4.43  | UT                          | 8.54  | IA  | 5.19  |
| SD                                      | 4.31  | NM                          | 8.37  | NE  | 4.93  |
| SC                                      | 4.12  | IN                          | 7.07  | NM  | 4.75  |
| AR                                      | 3.78  | VA                          | 7.00  | SD  | 4.74  |
| IN                                      | 3.23  | WY                          | 5.60  | IN  | 4.06  |

| Class<br>Wallboard |       |          | ass 5474<br>nting NOC | Class 5506<br>Street/Road Constr |       |
|--------------------|-------|----------|-----------------------|----------------------------------|-------|
| NIII               | 22.70 | DI       | 24.12                 | DC                               | 16.15 |
| NH                 | 32.70 | RI<br>FL | 24.12                 | DC                               | 16.15 |
| FL                 | 24.77 |          | 24.04                 | LA                               | 15.64 |
| MT                 | 16.44 | LA       | 19.25                 | GA                               | 15.59 |
| CT                 | 16.35 | MT       | 18.98                 | FL                               | 15.45 |
| ME                 | 15.84 | WV       | 16.81                 | NH                               | 15.17 |
| AL                 | 15.53 | ME       | 15.46                 | DE                               | 15.05 |
| WV                 | 14.98 | NY       | 15.19                 | MI                               | 14.64 |
| WA                 | 14.79 | CT       | 15.13                 | NY                               | 14.09 |
| RI                 | 13.82 | NH       | 14.94                 | NV                               | 13.45 |
| Oregon             | 13.63 | OH       | 14.63                 | CO                               | 12.90 |
| LA                 | 13.12 | NV       | 13.63                 | OK                               | 12.69 |
| NY                 | 12.66 | OK       | 13.17                 | WV                               | 12.57 |
| MN                 | 12.60 | CO       | 12.37                 | TX                               | 12.46 |
| MS                 | 12.60 | DE       | 12.26                 | CT                               | 11.81 |
| TN                 | 12.18 | CA       | 12.21                 | RI                               | 11.33 |
| TX                 | 11.87 | WA       | 12.04                 | PA                               | 11.24 |
| DC                 | 11.35 | AL       | 11.66                 | MN                               | 10.92 |
| OK                 | 11.15 | GA       | 11.15                 | IL                               | 10.70 |
| CO                 | 11.00 | MI       | 11.15                 | MT                               | 10.13 |
| OH                 | 10.98 | TX       | 11.15                 | MD                               | 9.40  |
| NV                 | 10.92 | Oregon   | 11.02                 | CA                               | 9.32  |
| MA                 | 10.65 | DC       | 10.86                 | NJ                               | 9.06  |
| CA                 | 10.64 | PA       | 10.73                 | MA                               | 8.82  |
| WI                 | 9.77  | MN       | 10.65                 | NM                               | 8.73  |
| GA                 | 9.28  | KY       | 10.60                 | TN                               | 8.69  |
| AZ                 | 9.24  | IL       | 10.21                 | NC                               | 8.32  |
| HI                 | 9.20  | TN       | 9.83                  | AZ                               | 8.15  |
| KY                 | 9.17  | WI       | 9.73                  | HI                               | 8.13  |
| ND                 | 9.08  | UT       | 9.60                  | WI                               | 8.11  |
| ID                 | 8.69  | MS       | 9.58                  | OH                               | 7.77  |
| NC                 | 8.68  | NJ       | 9.51                  | MS                               | 7.43  |
| PA                 | 8.57  | MA       | 9.40                  | IA                               | 7.38  |
| DE                 | 8.54  | SD       | 9.22                  | AL                               | 7.29  |
| IL                 | 8.23  | MO       | 8.53                  | MO                               | 7.02  |
| MI                 | 8.20  | MD       | 8.51                  | UT                               | 6.89  |
| SD                 | 7.18  | AK       | 8.18                  | ME                               | 6.74  |
| SC                 | 7.17  | NE       | 7.87                  | WA                               | 6.71  |
| AK                 | 7.11  | HI       | 7.80                  | NE                               | 6.41  |
| NJ                 | 7.01  | NC       | 7.77                  | AK                               | 6.30  |
| AR                 | 7.00  | IA       | 7.58                  | VT                               | 6.25  |
| VT                 | 7.00  | KS       | 7.55                  | Oregon                           | 5.96  |
| UT                 | 6.78  | ID       | 7.51                  | ND                               | 5.95  |
| NE                 | 6.75  | SC       | 7.45                  | KS                               | 5.89  |
| IA                 | 6.70  | AR       | 7.03                  | VA                               | 5.79  |
| MD                 | 6.65  | AZ       | 6.84                  | KY                               | 5.68  |
| VA                 | 6.63  | VA       | 6.56                  | SC                               | 5.52  |
| MO                 | 6.58  | ND       | 6.16                  | AR                               | 5.38  |
| KS                 | 6.11  | VT       | 6.02                  | IN                               | 5.28  |
| WY                 | 5.94  | IN       | 5.94                  | ID                               | 5.16  |
| NM                 | 4.82  | WY       | 5.60                  | SD                               | 5.03  |
| IN                 | 4.55  | NM       | 5.01                  | WY                               | 4.94  |
|                    |       |          |                       |                                  |       |

| Class 5 Sheet Metal V |              |                     | ss 5551<br>-All kinds | Class<br>Carpentry-D |                |
|-----------------------|--------------|---------------------|-----------------------|----------------------|----------------|
|                       |              |                     |                       |                      |                |
| AL                    | 17.26        | FL                  | 52.38                 | FL                   | 44.33          |
| NY                    | 17.15        | MT                  | 49.56                 | AL                   | 24.34          |
| FL                    | 15.72        | NH                  | 48.92                 | LA                   | 21.82          |
| NV                    | 15.34        | MN                  | 40.24                 | MT                   | 18.65          |
| LA                    | 15.31        | AL                  | 39.04                 | HI                   | 18.06          |
| TX                    | 14.37        | MI                  | 35.60                 | CO                   | 17.35          |
| CO                    | 13.25        | LA                  | 35.21                 | CA                   | 17.18          |
| IL<br>MG              | 12.00        | MD                  | 34.31                 | CT                   | 17.11          |
| MS                    | 11.78        | RI                  | 33.91                 | Oregon               | 17.09          |
| NH                    | 10.39        | WI                  | 31.24                 | NY                   | 16.92          |
| RI                    | 10.29        | HI                  | 30.54                 | KY                   | 16.41          |
| GA                    | 9.81         | CO                  | 30.33                 | RI                   | 16.21          |
| OH                    | 9.61         | IL<br>NY            | 28.86                 | TX                   | 16.05          |
| DE                    | 9.50         | NV                  | 28.54                 | GA                   | 15.97          |
| OK                    | 9.44         | NJ                  | 28.20                 | IL<br>OV             | 15.24          |
| KY                    | 9.29         | NY                  | 27.03                 | OK                   | 15.24          |
| Oregon                | 9.10         | CT                  | 26.97                 | TN                   | 15.19          |
| DC                    | 8.99         | TX                  | 26.18                 | WV                   | 14.98          |
| CA                    | 8.94         | CA                  | 26.11                 | NH                   | 14.30          |
| CT                    | 8.94         | OK                  | 25.03                 | OH                   | 14.08          |
| MT                    | 8.14         | KY                  | 24.35                 | SC                   | 13.52          |
| WI                    | 8.07         | Он                  | 23.83<br>23.79        | NV                   | 13.27          |
| NM<br>MA              | 8.05<br>7.96 | <b>Oregon</b><br>DE | 23.79                 | AZ<br>MS             | 13.06<br>12.87 |
| VT                    |              |                     |                       |                      |                |
|                       | 7.92         | MO                  | 23.01                 | MN                   | 12.41          |
| TN<br>MI              | 7.92<br>7.89 | TN<br>WA            | 22.42<br>22.36        | NM<br>NC             | 12.34<br>12.28 |
| HI                    | 7.89<br>7.79 | ME                  | 21.59                 | DE                   | 12.28          |
| NC                    | 7.79         | GA                  | 21.43                 | AK                   | 12.10          |
| SC                    | 7.60         | KS                  | 21.43                 | WI                   | 11.95          |
| MO                    | 7.43         | PA                  | 21.26                 | WA                   | 11.57          |
| WV                    | 6.96         | ND                  | 20.71                 | AR                   | 11.57          |
| MN                    | 6.80         | ID                  | 20.53                 | MA                   | 11.49          |
| AZ                    | 6.77         | NE                  | 20.18                 | ID                   | 11.15          |
| NE                    | 6.76         | AR                  | 19.46                 | NJ                   | 10.93          |
| ME                    | 6.57         | SC                  | 19.30                 | MI                   | 10.69          |
| AR                    | 6.51         | NC                  | 18.96                 | KS                   | 10.40          |
| MD                    | 6.35         | UT                  | 18.96                 | MO                   | 10.16          |
| KS                    | 6.16         | VT                  | 18.72                 | ME                   | 9.84           |
| IA                    | 6.09         | MS                  | 18.22                 | VT                   | 9.17           |
| NJ                    | 5.99         | DC                  | 17.92                 | ND                   | 9.08           |
| ID                    | 5.87         | IA                  | 17.38                 | UT                   | 8.54           |
| AK                    | 5.79         | NM                  | 17.38                 | IA                   | 8.48           |
| WY                    | 5.60         | AK                  | 16.69                 | DC                   | 8.41           |
| UT                    | 5.59         | SD                  | 14.71                 | VA                   | 8.35           |
| VA                    | 5.43         | VA                  | 14.38                 | MD                   | 7.96           |
| SD                    | 5.37         | AZ                  | 13.15                 | SD                   | 7.47           |
| PA                    | 4.75         | WV                  | 12.47                 | IN                   | 7.43           |
| ND                    | 4.48         | IN                  | 11.87                 | NE                   | 7.32           |
| IN                    | 4.29         | WY                  | 5.60                  | WY                   | 5.94           |
| WA                    | 4.20         | MA                  | =                     | PA                   | 3.92           |
|                       |              |                     |                       |                      |                |

| Class 6217<br>Excavation NOC |       | Class 7219 (7228 & 7229)  Trucking NOC |       | Class 7380<br>Chauffeurs NOC |              |
|------------------------------|-------|--|-------|------------------------------|--------------|
| FL                           | 13.33 | DC                                     | 31.25 | FL                           | 12.52        |
| AL                           | 12.57 | FL FL                                  | 20.20 | CA                           | 10.72        |
| MT                           | 12.44 | NV                                     | 16.18 | NY<br>NY                     | 9.76         |
| LA                           | 12.44 | LA                                     | 15.30 | RI                           | 9.61         |
| NH                           | 11.54 | OH                                     | 14.75 | CT                           | 9.30         |
| CO                           | 10.82 | ME                                     | 14.73 | PA                           | 9.30<br>9.27 |
| TX                           | 10.72 | TX                                     | 13.92 | ME                           | 8.57         |
| RI                           | 10.72 | MN                                     | 13.79 | TX                           | 8.31         |
| GA                           | 10.29 | RI                                     | 13.47 | IL                           | 8.13         |
| OK OK                        | 10.26 | AL                                     | 13.46 | LA                           | 8.10         |
| NY                           | 9.94  | CA                                     | 13.40 | OH                           | 8.10         |
| KY                           | 9.81  | CT                                     | 12.87 | NJ                           | 7.51         |
| MN                           | 9.68  | NY                                     | 12.35 | DC                           | 7.12         |
| WA                           | 9.59  | OK                                     | 12.20 | AL                           | 6.91         |
| OH                           | 9.49  | CO                                     | 12.20 | MI                           | 6.39         |
| DC                           | 9.34  | MT                                     | 11.72 | CO                           | 6.30         |
| WV                           | 9.10  | KY                                     | 11.53 | HI                           | 6.24         |
| ME                           | 8.98  | IL                                     | 11.50 | OK                           | 6.03         |
| MI                           | 8.96  | DE                                     | 11.46 | GA                           | 5.99         |
| Oregon                       | 8.92  | NH                                     | 10.87 | MA                           | 5.76         |
| AK                           | 8.50  | GA                                     | 10.71 | VT                           | 5.71         |
| MS                           | 8.35  | MI                                     | 10.71 | MN                           | 5.67         |
| DE                           | 8.11  | HI                                     | 10.10 | MT                           | 5.29         |
| NV                           | 7.88  | Oregon                                 | 10.01 | MO                           | 5.27         |
| TN                           | 7.84  | WA                                     | 9.88  | WA                           | 4.96         |
| IL                           | 7.55  | MS<br>MS                               | 9.85  | WV                           | 4.95         |
| CT                           | 7.41  | PA                                     | 9.67  | SD                           | 4.81         |
| MO                           | 6.94  | AZ                                     | 9.64  | AK                           | 4.76         |
| AR                           | 6.69  | NJ                                     | 9.64  | NH                           | 4.74         |
| CA                           | 6.66  | MO                                     | 9.05  | TN                           | 4.66         |
| SD                           | 6.56  | AK                                     | 8.76  | WI                           | 4.63         |
| ID                           | 6.41  | VT                                     | 8.75  | WY                           | 4.58         |
| UT                           | 6.37  | NC                                     | 8.59  | ID                           | 4.52         |
| ND                           | 6.35  | WI                                     | 8.50  | Oregon                       | 4.43         |
| HI                           | 6.25  | AR                                     | 8.40  | NC                           | 4.38         |
| NJ                           | 6.20  | ID                                     | 8.20  | MS                           | 4.09         |
| WI                           | 6.20  | VA                                     | 7.88  | NE                           | 4.02         |
| MA                           | 6.15  | ND                                     | 7.77  | MD                           | 4.01         |
| VT                           | 6.09  | MA                                     | 7.68  | NM                           | 3.95         |
| PA                           | 5.86  | UT                                     | 7.43  | KY                           | 3.93         |
| AZ                           | 5.79  | NE                                     | 7.35  | AR                           | 3.53         |
| NC                           | 5.77  | TN                                     | 7.02  | SC                           | 3.46         |
| WY                           | 5.60  | IA                                     | 7.01  | KS                           | 3.38         |
| IA                           | 5.56  | SC                                     | 6.98  | UT                           | 3.33         |
| SC                           | 5.54  | MD                                     | 6.82  | IA                           | 3.24         |
| KS                           | 5.21  | KS                                     | 6.55  | VA                           | 3.19         |
| VA                           | 4.94  | SD                                     | 6.10  | IN                           | 3.17         |
| MD                           | 4.76  | NM                                     | 6.06  | ND                           | 2.80         |
| NE                           | 4.60  | WV                                     | 5.08  | AZ                           | -            |
| IN                           | 3.99  | WY                                     | 4.58  | DE                           | _            |
| NM                           | 3.91  | IN                                     | 3.79  | NV                           | -            |
|                              |       |  |       |                              |              |

| Class 7720<br>Police Officers |      | Class 8017<br>Store: Retail NOC |      | Class 8018<br>Store: Wholesale NOC |      |
|-------------------------------|------|---------------------------------|------|------------------------------------|------|
| CA                            | 8.70 | TX                              | 4.34 | TX                                 | 8.05 |
| NV<br>NV                      | 8.03 | CA                              | 4.03 | RI                                 | 7.62 |
| FL                            | 7.68 | OK                              | 3.28 | VT                                 | 7.38 |
| OK                            | 6.91 | RI                              | 3.24 | LA                                 | 6.78 |
| DE                            | 6.75 | DE                              | 3.23 | NH                                 | 6.76 |
| MT                            | 6.56 | FL                              | 3.11 | FL                                 | 6.36 |
| TX                            | 5.37 | NV                              | 2.97 | AK                                 | 6.14 |
| GA                            | 5.14 | HI                              | 2.77 | CA                                 | 6.14 |
| OH                            | 5.04 | NJ                              | 2.72 | NY                                 | 6.12 |
| CT                            | 4.99 | LA                              | 2.67 | HI                                 | 6.08 |
| LA                            | 4.94 | OH                              | 2.65 | OK                                 | 5.89 |
| AL                            | 4.78 | PA                              | 2.52 | PA                                 | 5.41 |
| AZ                            | 4.50 | CO                              | 2.50 | MI                                 | 5.24 |
| CO                            | 4.43 | NY                              | 2.49 | ME                                 | 5.12 |
| PA                            | 4.13 | GA                              | 2.35 | DE                                 | 5.07 |
| Oregon                        | 4.13 | AK                              | 2.33 | CO                                 | 5.06 |
| MO                            | 4.11 | NM                              | 2.29 | NV                                 | 5.04 |
| VT                            | 3.97 | AL                              | 2.19 | IL                                 | 5.02 |
| TN                            | 3.94 | MT                              | 2.19 | DC                                 | 4.89 |
| IL                            | 3.83 | IL                              | 2.17 | OH                                 | 4.89 |
| IL<br>HI                      | 3.83 | ME                              | 2.17 | MO                                 | 4.87 |
| MI                            | 3.74 | NH                              | 2.14 | AL                                 | 4.71 |
| RI                            | 3.74 | MS                              | 2.05 | MA                                 | 4.33 |
| NH                            | 3.72 | CT                              | 2.04 | NM                                 | 4.33 |
|                               | 3.43 | WV                              |      |                                    | 4.32 |
| ME                            |      |                                 | 1.97 | ID<br>CA                           |      |
| NJ                            | 3.22 | WY                              | 1.86 | GA                                 | 4.22 |
| AK<br>WV                      | 3.21 | KY                              | 1.85 | CT                                 | 4.02 |
|                               | 3.14 | TN                              | 1.84 | MT                                 | 3.98 |
| WI                            | 3.12 | MO                              | 1.81 | TN                                 | 3.93 |
| ID<br>MS                      | 2.99 | KS                              | 1.75 | MN                                 | 3.91 |
| MS                            | 2.83 | MI                              | 1.69 | NE                                 | 3.84 |
| NM<br>VV                      | 2.82 | ID<br>NC                        | 1.67 | NJ<br>MS                           | 3.75 |
| KY                            | 2.80 | NC<br>MN                        | 1.55 | MS                                 | 3.44 |
| KS                            | 2.74 | MN                              | 1.52 | KY                                 | 3.38 |
| UT                            | 2.70 | AZ                              | 1.49 | KS                                 | 3.36 |
| MA                            | 2.63 | VT                              | 1.47 | IA<br>MD                           | 3.26 |
| DC<br>NE                      | 2.55 | Oregon                          | 1.47 | MD                                 | 3.20 |
| NE<br>MN                      | 2.52 | SC                              | 1.42 | AZ                                 | 3.17 |
| MN                            | 2.41 | MA                              | 1.33 | WI                                 | 3.14 |
| AR                            | 2.37 | DC                              | 1.31 | AR                                 | 3.00 |
| SC                            | 2.30 | WI                              | 1.28 | NC                                 | 2.94 |
| SD                            | 2.26 | NE<br>N                         | 1.25 | SD                                 | 2.83 |
| NC                            | 2.24 | IN                              | 1.20 | Oregon                             | 2.69 |
| ND                            | 2.22 | SD                              | 1.19 | IN                                 | 2.64 |
| IA<br>MD                      | 2.10 | IA<br>MD                        | 1.19 | WV                                 | 2.64 |
| MD                            | 2.10 | MD                              | 1.15 | UT                                 | 2.62 |
| WY                            | 2.05 | ND                              | 1.13 | WY                                 | 2.49 |
| NY                            | 2.04 | UT                              | 1.11 | ND                                 | 2.38 |
| IN                            | 1.98 | VA                              | 1.04 | SC                                 | 2.14 |
| WA                            | 1.97 | AR                              | 0.90 | WA                                 | 2.13 |
| VA                            | 1.74 | WA                              | 0.78 | VA                                 | 1.93 |

| Class Store: Meat/G |       |        | ss 8232<br>rd: Other Emp | Class 8742<br>Salespersons-Outsid |      |
|---------------------|-------|--------|--------------------------|-----------------------------------|------|
| DC                  | 12.91 | FL     | 12.78                    | FL                                | 1.13 |
| TX                  | 8.10  | NY     | 10.44                    | WV                                | 1.03 |
| RI                  | 5.47  | LA     | 9.82                     | LA                                | 1.03 |
| NY                  | 5.41  | TX     | 9.15                     | NV                                | 0.99 |
| CA                  | 5.22  | NV     | 8.93                     | ME                                | 0.99 |
| FL                  | 5.17  | CA     | 8.51                     | AL                                | 0.98 |
| ND                  | 5.04  | OK     | 8.09                     | TX                                | 0.93 |
| CO                  | 4.78  | MT     | 8.08                     | HI                                | 0.85 |
| DE                  | 4.65  | RI     | 8.07                     | OK                                | 0.83 |
| OH                  | 4.00  | IL     | 7.84                     | NY                                | 0.81 |
| OK                  | 3.98  | AL     | 7.33                     | MS                                | 0.80 |
| NJ                  | 3.83  | DE     | 7.22                     | VT                                | 0.79 |
| LA                  | 3.83  | GA     | 7.13                     | CT                                | 0.78 |
| NV                  | 3.81  | AK     | 6.75                     | CA                                | 0.78 |
| AK                  | 3.61  | CT     | 6.57                     | MT                                | 0.74 |
| IL                  | 3.38  | OH     | 6.56                     | RI                                | 0.74 |
| PA                  | 3.32  | WY     | 6.47                     | OH                                | 0.73 |
| MI                  | 3.26  | CO     | 6.41                     | MN                                | 0.73 |
| ID                  | 3.21  | WI     | 6.21                     | WY                                | 0.70 |
| MT                  | 3.21  | NJ     | 6.13                     | PA                                | 0.69 |
| HI                  | 3.19  | HI     | 6.07                     | ID                                | 0.68 |
| MD                  | 3.04  | MN     | 6.02                     | DE                                | 0.67 |
| AL                  | 3.03  | PA     | 6.01                     | CO                                | 0.67 |
| NH                  | 2.95  | MO     | 5.92                     | NH                                | 0.64 |
| CT                  | 2.93  | ID     | 5.88                     | TN                                | 0.63 |
| WY                  | 2.91  | KY     | 5.72                     | MO                                | 0.62 |
| WA                  | 2.85  | TN     | 5.60                     | IA                                | 0.61 |
| GA                  | 2.70  | DC     | 5.55                     | KY                                | 0.58 |
| MA                  | 2.67  | MS     | 5.23                     | MI                                | 0.57 |
| TN                  | 2.67  | MA     | 5.14                     | GA                                | 0.57 |
| WI                  | 2.66  | MI     | 5.04                     | NJ                                | 0.57 |
| VT                  | 2.66  | KS     | 4.94                     | AR                                | 0.55 |
| MS                  | 2.62  | AR     | 4.83                     | SC                                | 0.55 |
| MO                  | 2.56  | NH     | 4.83                     | AK                                | 0.55 |
| MN                  | 2.52  | AZ     | 4.81                     | NM                                | 0.55 |
| KY                  | 2.44  | WV     | 4.61                     | SD                                | 0.54 |
| NM                  | 2.43  | NC     | 4.48                     | WI                                | 0.54 |
| Oregon              | 2.43  | SD     | 4.29                     | NC                                | 0.50 |
| ME                  | 2.17  | NE     | 4.27                     | IL                                | 0.49 |
| AZ                  | 2.16  | Oregon | 4.25                     | NE                                | 0.48 |
| SD                  | 2.14  | MD     | 3.99                     | ND                                | 0.46 |
| VA                  | 2.06  | SC     | 3.96                     | Oregon                            | 0.43 |
| AR                  | 2.03  | NM     | 3.92                     | IN                                | 0.42 |
| WV                  | 1.97  | VT     | 3.70                     | UT                                | 0.39 |
| KS                  | 1.88  | ME     | 3.67                     | MD                                | 0.39 |
| NC                  | 1.71  | IN     | 3.64                     | KS                                | 0.38 |
| UT                  | 1.69  | UT     | 3.52                     | VA                                | 0.38 |
| SC                  | 1.66  | IA     | 3.38                     | AZ                                | 0.35 |
| IN                  | 1.65  | WA     | 3.12                     | MA                                | 0.34 |
| NE                  | 1.55  | VA     | 3.04                     | WA                                | 0.32 |
| IA                  | 1.43  | ND     | 2.59                     | DC                                | 0.25 |

| Class S<br>Clerical Office |      | Class 8824 (8 Retirement |              | Class 8832<br>Physician and Cleri |      |
|----------------------------|------|--------------------------|--------------|-----------------------------------|------|
| WV                         | 0.70 | CA                       | 8.88         | CA                                | 1.58 |
| CA                         | 0.66 | FL                       | 8.78         | HI                                | 0.95 |
| HI                         | 0.64 | OK                       | 8.04         | FL                                | 0.89 |
| ME                         | 0.63 | MT                       | 7.16         | NV                                | 0.89 |
| OH                         | 0.60 | WV                       | 6.93         | CO                                | 0.85 |
| FL                         | 0.59 | PA                       | 6.79         | AK                                | 0.76 |
| OK                         | 0.52 | AK                       | 6.77         | RI                                | 0.75 |
| MT                         | 0.52 | TX                       | 6.56         | TX                                | 0.75 |
| NV                         | 0.51 | LA                       | 6.50         | WY                                | 0.70 |
| LA                         | 0.50 | RI                       | 6.21         | OH                                | 0.68 |
| AK                         | 0.50 | CO                       | 5.88         | OK                                | 0.66 |
| RI                         | 0.48 | GA                       | 5.77         | ME                                | 0.63 |
| TX                         | 0.48 | NY<br>NY                 | 5.77         | NY                                | 0.62 |
| DE                         | 0.46 | MS                       | 5.56         | NH                                | 0.61 |
| NY                         | 0.44 | ID                       | 5.45         | CT                                | 0.57 |
| CO                         | 0.43 | DE<br>DE                 | 4.85         | MT                                | 0.54 |
| ID                         | 0.43 | AL                       | 4.57         | WV                                | 0.54 |
| CT                         | 0.37 | TN                       | 4.56         | LA                                | 0.51 |
| MS                         | 0.35 | OH                       | 4.51         | PA                                | 0.48 |
| WY                         | 0.35 | VT                       | 4.48         | AZ                                | 0.47 |
| NH                         | 0.35 | CT                       | 4.40         | MI                                | 0.47 |
| GA                         | 0.34 | NV                       | 4.40         | DC                                | 0.47 |
| MO                         | 0.33 | IL                       | 4.25         | MN                                | 0.46 |
| AL                         | 0.33 | HI                       | 4.24         | ID                                | 0.45 |
| MI                         | 0.33 | Oregon                   | 4.21         | AL                                | 0.43 |
| SD                         | 0.33 | MO                       | 3.99         | IL                                | 0.43 |
| NM                         | 0.32 | MI<br>MI                 | 3.84         | Oregon                            | 0.43 |
| PA                         | 0.32 | NH                       | 3.75         | MS                                | 0.43 |
| TN                         | 0.32 | MN                       | 3.71         | DE                                | 0.39 |
| VT                         | 0.32 | KS                       | 3.69         | WA                                | 0.38 |
| IL                         | 0.32 | WA                       | 3.66         | MO                                | 0.37 |
| IA                         | 0.30 | NE                       | 3.66         | ND                                | 0.37 |
| Oregon                     | 0.29 | WI                       | 3.58         | MA                                | 0.36 |
| NJ                         | 0.28 | ND                       | 3.58         | NC                                | 0.35 |
| AZ                         | 0.27 | NM                       | 3.55         | WI                                | 0.35 |
| DC                         | 0.26 | NJ                       | 3.36         | KS                                | 0.35 |
| WI                         | 0.26 | KY                       | 3.34         | IA                                | 0.34 |
| NC                         | 0.25 | DC                       | 3.16         | VT                                | 0.34 |
| AR                         | 0.25 | SD                       | 3.12         | NJ                                | 0.33 |
| KY                         | 0.25 | IA                       | 3.12         | KY                                | 0.32 |
| NE                         | 0.24 | AZ                       | 2.94         | GA                                | 0.32 |
| KS                         | 0.24 | WY                       | 2.88         | TN                                | 0.31 |
| IN                         | 0.21 | ME                       | 2.84         | NM                                | 0.28 |
| MN                         | 0.21 | AR                       | 2.72         | SD                                | 0.28 |
| SC                         | 0.21 | NC<br>NC                 | 2.70         | NE                                | 0.27 |
| ND                         | 0.20 | MD                       | 2.70         | SC                                | 0.26 |
| UT                         | 0.20 | IN                       | 2.62         | MD                                | 0.25 |
| MD                         | 0.20 | SC                       | 2.56<br>2.56 | AR                                | 0.25 |
| MA                         | 0.19 | UT                       | 2.39         | AK<br>IN                          | 0.23 |
| WA                         | 0.19 | VA                       | 2.35         | VA                                | 0.21 |
|                            | 0.17 | VA<br>MA                 | 2.35         | VA<br>UT                          | 0.19 |
| VA                         | 0.15 | IVIA                     | -            | UI                                | 0.16 |

| Class 8833<br>Hospital: Professional |              | Class 8868<br>College:Professional/Clerical |              | Class 9015 Bldgs-Operation by Owner |              |
|--------------------------------------|--------------|---|--------------|-------------------------------------|--------------|
| OV                                   | 2.22         | CA  | 1.02         | E                                   | 0.10         |
| OK<br>CA                             | 3.23<br>3.04 | WY  | 1.92<br>1.78 | FL<br>CA                            | 9.19<br>8.28 |
| NV<br>NV                             | 2.66         | FL  | 1.16         | LA<br>LA                            | 7.26         |
| AL                                   | 2.38         | NV  | 0.96         | NV                                  | 7.20         |
| MT                                   | 2.10         | ОН  | 0.94         | MT                                  | 6.89         |
| MI                                   | 2.02         | NY  | 0.93         | OK                                  | 6.78         |
| TX                                   | 2.02         | TX  | 0.87         | TX                                  | 6.64         |
| CO                                   | 2.00         | MN  | 0.86         | PA                                  | 6.38         |
| FL                                   | 1.99         | DE  | 0.82         | NH                                  | 6.04         |
| AK                                   | 1.99         | ME  | 0.77         | OH                                  | 6.03         |
| WY                                   | 1.97         | NJ  | 0.75         | ME                                  | 5.95         |
| HI                                   | 1.86         | HI  | 0.72         | AL                                  | 5.93         |
| MN                                   | 1.85         | LA  | 0.67         | CO                                  | 5.78         |
| LA                                   | 1.85         | PA  | 0.65         | DE                                  | 5.50         |
| DE                                   | 1.81         | NH  | 0.64         | GA                                  | 5.47         |
| NY                                   | 1.67         | CO  | 0.63         | ID                                  | 5.22         |
| ОН                                   | 1.66         | CT  | 0.63         | MI                                  | 5.22         |
| ND                                   | 1.66         | MA  | 0.59         | MS                                  | 5.14         |
| NH                                   | 1.63         | WV  | 0.59         | RI                                  | 5.10         |
| ME                                   | 1.62         | RI  | 0.58         | CT                                  | 5.03         |
| KY                                   | 1.62         | IL  | 0.57         | HI                                  | 4.95         |
| WV                                   | 1.56         | AL  | 0.56         | MO                                  | 4.93         |
| RI                                   | 1.52         | TN  | 0.55         | ND                                  | 4.68         |
| IL                                   | 1.49         | AR  | 0.54         | Oregon                              | 4.67         |
| PA                                   | 1.49         | MO  | 0.54         | WV                                  | 4.67         |
| ID                                   | 1.44         | KY  | 0.52         | MN                                  | 4.66         |
| TN                                   | 1.42         | WA  | 0.50         | AK                                  | 4.65         |
| MO                                   | 1.41         | AK  | 0.50         | SD                                  | 4.54         |
| AZ                                   | 1.40         | GA  | 0.50         | TN                                  | 4.50         |
| DC                                   | 1.39         | NC  | 0.49         | VT                                  | 4.50         |
| NM                                   | 1.37         | NM  | 0.49         | KY                                  | 4.43         |
| WA                                   | 1.36         | OK  | 0.47         | IL                                  | 4.24         |
| NJ                                   | 1.33         | SC  | 0.47         | NM                                  | 4.23         |
| MS                                   | 1.33         | AZ  | 0.42         | NJ                                  | 4.10         |
| NE                                   | 1.31         | Oregon                                      | 0.40         | WI                                  | 3.97         |
| VT                                   | 1.29         | ID  | 0.40         | WY                                  | 3.95         |
| SD                                   | 1.17         | NE  | 0.39         | WA                                  | 3.87         |
| GA                                   | 1.15         | VT  | 0.39         | AZ                                  | 3.84         |
| IA                                   | 1.12         | ND  | 0.39         | UT                                  | 3.79         |
| Oregon                               | 1.11         | MS  | 0.38         | KS                                  | 3.73         |
| MA                                   | 1.11         | MT  | 0.37         | NY                                  | 3.73         |
| AR                                   | 1.08         | IA  | 0.34         | MA                                  | 3.72         |
| NC                                   | 1.06         | MD  | 0.34         | AR                                  | 3.47         |
| CT                                   | 1.01         | VA  | 0.33         | IA<br>DC                            | 3.29         |
| WI                                   | 0.98         | DC  | 0.33         | DC                                  | 3.22         |
| SC                                   | 0.92         | SD  | 0.32         | NC                                  | 3.09         |
| KS                                   | 0.85         | KS  | 0.32         | SC<br>MD                            | 3.07         |
| MD                                   | 0.85         | MI<br>WI                                    | 0.30         | MD                                  | 2.91         |
| IN                                   | 0.68         | WI  | 0.29         | IN<br>NE                            | 2.91         |
| VA                                   | 0.62<br>0.60 | IN  | 0.23<br>0.15 | NE<br>VA                            | 2.83         |
| UT                                   | 0.00         | UT  | 0.15         | VA                                  | 2.00         |

| Class 9052<br>Hotel: Other Emp |      | Class 9079 (9058&9082-9084)<br>Restaurant NOC |      | Class 9101<br>College: Other Emp |      |
|--------------------------------|------|---|------|----------------------------------|------|
| CA                             | 6.82 | FL  | 5.53 | FL                               | 9.16 |
| FL                             | 6.81 | TX  | 5.04 | TX                               | 7.86 |
| TX                             | 6.56 | CA  | 4.35 | NY                               | 6.21 |
| OK                             | 6.32 | LA  | 4.02 | DC                               | 6.09 |
| RI                             | 4.91 | RI  | 3.93 | CO                               | 5.90 |
| WA                             | 4.58 | MT  | 3.82 | CA                               | 5.88 |
| PA                             | 4.56 | GA  | 3.76 | NJ                               | 5.72 |
| NH                             | 4.35 | OK  | 3.69 | LA                               | 5.16 |
| WV                             | 4.28 | OH  | 3.65 | RI                               | 4.99 |
| DE                             | 4.23 | DE  | 3.43 | GA                               | 4.74 |
|                                |      |   |      |                                  |      |
| CO                             | 4.13 | NY  | 3.39 | OK                               | 4.73 |
| NY                             | 4.12 | HI  | 3.25 | NV                               | 4.68 |
| AK                             | 4.12 | WV  | 3.23 | CT                               | 4.59 |
| OH                             | 4.12 | NJ  | 3.16 | HI                               | 4.39 |
| NV                             | 4.09 | AL  | 3.12 | MT                               | 4.34 |
| MT                             | 4.06 | PA  | 3.09 | NH                               | 4.28 |
| GA                             | 4.03 | NH  | 3.00 | ID                               | 4.22 |
| MS                             | 3.93 | AK  | 2.98 | IL<br>Owners                     | 4.13 |
| ID                             | 3.92 | NV  | 2.92 | Oregon                           | 4.11 |
| LA                             | 3.89 | MI  | 2.71 | WI                               | 4.08 |
| MI                             | 3.84 | CT  | 2.70 | MO                               | 4.00 |
| VT                             | 3.83 | CO  | 2.70 | AZ                               | 3.87 |
| HI                             | 3.82 | MS  | 2.70 | MS                               | 3.85 |
| AL                             | 3.64 | TN  | 2.68 | KY                               | 3.63 |
| TN                             | 3.62 | WY  | 2.65 | IA                               | 3.58 |
| WI                             | 3.47 | IL  | 2.64 | VT                               | 3.46 |
| IL                             | 3.46 | Oregon  | 2.53 | AK                               | 3.39 |
| Oregon                         | 3.38 | MO  | 2.49 | TN                               | 3.38 |
| KY                             | 3.34 | ME  | 2.45 | NE                               | 3.35 |
| CT                             | 3.25 | ID  | 2.39 | ME                               | 3.30 |
| MO                             | 3.22 | KY  | 2.34 | AR                               | 3.30 |
| DC                             | 3.18 | VT  | 2.33 | MN                               | 3.20 |
| ME                             | 3.14 | WA  | 2.24 | MA                               | 3.19 |
| NJ                             | 3.05 | ND  | 2.17 | KS                               | 3.16 |
| ND                             | 3.03 | MA  | 2.16 | MI                               | 3.13 |
| NM                             | 3.01 | NM  | 2.15 | NM                               | 3.11 |
| MN                             | 2.84 | DC  | 2.15 | AL                               | 2.89 |
| KS                             | 2.55 | NC  | 2.08 | SD                               | 2.89 |
| AR                             | 2.55 | SC  | 2.05 | UT                               | 2.84 |
| SD                             | 2.52 | AZ  | 2.01 | VA                               | 2.52 |
| IA                             | 2.48 | WI  | 2.01 | NC                               | 2.48 |
| MA                             | 2.36 | UT  | 1.85 | IN                               | 2.35 |
| AZ                             | 2.34 | SD  | 1.80 | MD                               | 2.12 |
| UT                             | 2.28 | MD  | 1.76 | SC                               | 1.97 |
| IN                             | 2.17 | AR  | 1.70 | WY                               | 1.78 |
| WY                             | 1.97 | IN  | 1.62 | ОН                               | 1.74 |
| SC                             | 1.96 | KS  | 1.57 | DE                               | 0.82 |
| NC                             | 1.91 | IA  | 1.56 | PA                               | 0.65 |
| NE                             | 1.85 | MN  | 1.44 | WV                               | 0.59 |
| MD                             | 1.81 | NE  | 1.44 | WA                               | 0.50 |
| VA                             | 1.51 | VA  | 1.36 | ND                               | -    |

|          | Class 9102<br>Park NOC | Class 9403 Garbage Collection |              |  |
|----------|------------------------|-------------------------------|--------------|--|
| FL       | 10.20                  | RI                            | 24.52        |  |
| KY       | 8.31                   | HI                            | 20.22        |  |
| OK       | 7.53                   | FL                            | 19.88        |  |
| OH       | 7.36                   | DC                            | 19.40        |  |
| NH       | 6.93                   | LA                            | 17.00        |  |
| TX       | 6.92                   | NY                            | 15.64        |  |
| LA       | 6.90                   | KY                            | 14.10        |  |
| CA       | 6.78                   | CT                            | 13.55        |  |
| HI       | 6.27                   | MI                            | 12.84        |  |
| AK       | 6.19                   | GA                            | 12.74        |  |
| NV       | 5.45                   | NH                            | 12.58        |  |
| ID       | 5.42                   | OK                            | 12.12        |  |
| RI       | 5.38                   | NV                            | 11.67        |  |
| CO       | 5.31                   | AL                            | 11.59        |  |
| MO       | 5.28                   | DE                            | 11.34        |  |
| MI       | 5.22                   | CO                            | 11.15        |  |
| WV       | 5.04                   | PA                            | 10.87        |  |
| MT       | 5.00                   | CA                            | 10.75        |  |
| Oregon   | 4.65                   | TX                            | 10.50        |  |
| ME       | 4.61                   | ОН                            | 10.29        |  |
| DE       | 4.59                   | NE                            | 10.03        |  |
| TN       | 4.58                   | AK                            | 10.01        |  |
| AL       | 4.57                   | MO                            | 9.88         |  |
| CT       | 4.47                   | MT                            | 9.67         |  |
| MN       | 4.44                   | ID                            | 9.64         |  |
| NY       | 4.12                   | IL                            | 9.56         |  |
| DC       | 4.06                   | AR                            | 9.55         |  |
| GA       | 4.00                   | MS                            | 9.23         |  |
| AZ       | 4.00                   | VT                            | 9.10         |  |
| NE       | 3.99                   | WI                            | 8.86         |  |
| NJ       | 3.97                   | NJ                            | 8.79         |  |
| UT       | 3.94                   | AZ                            | 8.65         |  |
| IL       | 3.81                   | MN                            | 8.62         |  |
| MS       | 3.80                   | WV                            | 8.48         |  |
| PA       | 3.72                   | MA                            | 8.32         |  |
| SD       | 3.52                   | MD                            | 7.79         |  |
| KS       | 3.49                   | IN                            | 7.72         |  |
| VT       | 3.45                   | SD                            | 7.59         |  |
| NC       | 3.41                   | ME                            | 7.28         |  |
| NM       | 3.32                   | WA                            | 7.22         |  |
| AR       | 3.31                   | ND                            | 6.94         |  |
| IA       | 3.28                   | SC                            | 6.84         |  |
| VA       | 3.05                   | Oregon                        | 6.28         |  |
| WI       | 2.97                   | IA                            | 6.27         |  |
| MA       | 2.95                   | KS                            | 6.16         |  |
| IN       | 2.77                   | TN                            | 6.09         |  |
| SC       | 2.77                   | VA                            | 5.90         |  |
| MD       | 2.75                   | NC                            | 5.82         |  |
| WA       | 2.33                   | UT                            | 5.55         |  |
| WA<br>ND | 1.85                   | NM                            |              |  |
| WY       |                        | WY                            | 4.65<br>4.58 |  |
| VV I     | -                      | vv I                          | 4.38         |  |